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("P" before a page number indicates "Patent")

Note.—In the transliteration of names originally written in Russian the system followed so far as possible is that of *Nature* 61, 396-7 (1890), in which *g* is used instead of the *w* or *f* of other spellings, *zh* instead of *sch* (*sh* instead of *tsch*, etc. Thus Pavlov not Pawlow, Chugaev not Tschugaeff. To make quite sure, users of the index should in such a case look under both spellings.

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- Schmidt Erich. Jandheur W. and Menel K. Integral relationship of cellulose to difficulty sol xylan in the structural substance of red beech (II) 1959
- Schmidt Erich. Menel K. and Jandheur W. Min equiv wt of celluloses 3828.
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II. SUBJECT INDEX

KEY

In using this index the following should be borne in mind

- 1 Subjects, not words, have been indexed
- 2 Abstracts, not merely their titles, have been considered in indexing
- 3 The small superior numeral which accompanies each page number designates the fraction of the page in ninths in which the subject being indexed is first considered. The printed matter only, exclusive of page headings, has been thus subdivided

- 4 "P" before a page number indicates that the abstract is of a patent.

- 5 The alphabetizing of index headings has been done on the basis first of that part which comes before the comma in such headings as *Copper, metallurgy of* and *Phenol, p nitro*. E g, these headings come before the headings *Copper compounds* and *Phenol condensation products*, respectively

- 6 Organic compounds are indexed on the basis of "parent compounds," or more accurately, "index compounds" (see Introduction), the names of substituent radicals following in alphabetical order. The system of naming organic compounds which has been used is outlined in the Introduction below. Esters and salts of organic acids are, in general, indexed under the names of the acids. Notes in the index under the appropriate headings explain the few exceptions.

- 7 An asterisk (*) following the name of an organic compound entered in the index signifies that the name, or numbering, or both are the author's own and may not conform to the system of nomenclature used in this index. This sign is used where it has seemed inadvisable, owing to incomplete information, to attempt to make the name conform to the system, or where the author's name, differing widely from the one given to the compound by the indexer, is given as an extra entry.

- 8 A dagger (†), which follows the names of a few compounds, signifies that the entry is an extra one, the name being only slightly less favored than the one chosen for the other entry. The preferred name can be determined by reference to the Formula Index.

The desirability of making the index readily usable without the need of reference to an elaborate introduction has been held constantly in mind. Although an introduction seems desirable and should be helpful nevertheless the index is dependent neither on the Key nor on the Introduction. Numerous cross references are given throughout the index and notes appear in connection with certain headings. An examination of the Introduction which follows, should be especially helpful to those interested in looking up organic compounds.

INTRODUCTION

General policy. The indexing of subjects, as opposed to word indexing, has been emphasized. This avoids omissions, scattering and unnecessary entries, with the abundant cross references used it means that one should be able to find all of the references on any subject with certainty and with a minimum of effort. The words used as subject headings or in modifying phrases are not necessarily to be found in the abstracts but an expression of the idea suggested will be found within or beginning in the ninth of the page designated by the small superior numeral following the page number. Chemical compounds have been named and entered systematically, the system used is outlined below. All new compounds and all elements, compounds and other substances for which new data are given have been indexed, with the single exception of new compounds for which no names or structures have been given. Such compounds are entered only in the Formula Index. The Subject Index is in no other respect altered because of the Formula Index.

Modifying phrases. In writing such phrases for the entries under any heading the words have been arranged so that the idea considered to be the most important is expressed at the beginning whenever feasible and this procedure, as well as the selection of the words for this purpose, has been governed by numerous formulated general principles and specific rules. E.g., "detection of" has been used consistently whenever correct at the beginning of the modifications in indexing subjects treated from a qualitative analytical point of view, instead of permitting a scattering under such additional phrases as "test for," "reaction for," etc., regardless of what words may have been used in the text. In the case of appropriate headings the selection of first words for modifications has been made on the basis of a definite system of classification. Under a few large headings two or more entries have been made on indexing a subject in a single abstract in case two or more ideas could be used equally well to start the modifying phrase. In alphabetizing modifying phrases prepositions at the beginning have been ignored.

References to fractions of the page. One can readily estimate ninths of a page with considerable accuracy by placing the fore or middle finger one-third of the distance from the top of the printed matter on the page and the thumb one-third of the distance from the bottom—a procedure very easily carried out.

Inorganic compounds. Simple inorganic compounds are entered under the usual names. In indexing compounds of iron, gold, copper and tin such headings as *Iron sulfates*, under which the "ous" and "ic" salts are entered, have been used rather than headings beginning with "ferric(ous)," "auric(ous)," "cupric(ous)," or "stannic(ous)." Acid salts, such as NaH_2PO_4 , are entered under such headings as *Sodium phosphates*. With the exception of a few common compounds such as carbon dioxide and carbon monoxide, compounds of a given element with another or with a definite radical, which differ only in valence relations, are grouped. E.g. the various oxides of nitrogen are grouped under the heading *Nitrogen oxides* and classified there. Complex inorganic compounds which cannot be given definite names satisfactory for indexing are usually indexed under the heading which represents the class of compounds concerned and under a heading beginning with the name of the significant element. E.g. dichlorotetraamminecobaltic chloride would be indexed under *Ammino compounds* and under *Cobalt compounds*. The Formula Index, which follows the Subject Index, should be particularly helpful in locating complex compounds.

Organic compounds. The system used for naming and indexing organic compounds is the same as that in use starting with the 1916 volume. An explanation of it by Austin M. Patterson and Carleton B. Curran, who are its originators, has appeared in another

journal of the Society¹ The system is based on existing usage and follows this as far as is practicable, so that a great many familiar names are unaffected Only the general principles will be given here, but in the index itself will be found abundant cross references and also notes under *Alcohols*, *Ketones*, etc., indicating how compounds of these classes are named²

1 The 'chief function' of a compound is expressed in the *main part of the name* wherever possible and not as a substituent thus Pyrrolicarboxylic acid not carboxy pyrrole, ethyl alcohol or ethanol, not hydroxyethane pentanone not ketopentane

2 In compounds of mixed function the chief function is determined from the following order of precedence³ 'onium' compounds, acid (carboxylic first) acid halide, amide imide aldehyde, nitrile ketone, alcohol phenol mercaptan amine imine ether sulfide (and sulfoxide and sulfone) Thus hydroxybenzotrile not cyanophenol aminophenol, not hydroxyaniline

3 A multiple chief function is expressed where feasible as diol dicarboxylic acid etc rather than as hydroxy—ol, carboxy—acid etc But amino and imino groups attached to cyclic bases are treated as substituents as aminopyridine

4 The index compound should be as large and the substituents as small as is practicable in conformity with the above rules as ethylbenzene not phenylethane But such names as diphenylethane and triphenylcarbinol are exceptions. When the chief function is in a side chain attached to a complex nucleus, additive names are preferred in order to harmonize 1 and 4, thus, naphthaleneacetic acid, not naphthyl acetic acid (with the result that the compound is indexed with other naphthalene derivatives instead of under acetic acid, see 5)

5 The main part of the name with its functional ending if any, is placed *first* in the index, the names of substituents following thus chloroacetic acid would appear in the index as *Acetic acid*, *chloro-* and dihydroxyanthraquinone as *Anthraquinone dihydroxy-* The part thus placed first is called the 'index compound,' it may or may not be the "parent compound" (in the second example the parent compound is anthracene)

6 Names in which two functions are expressed in the index compound, as propanolone, cyclopentanonecarboxylic acid, are avoided, except that a few very common ones, such as phenolsulfonic acid are used (indicated by cross references)

7 The names of the substituent radicals in the name of a compound are arranged in *alphabetical order*, as, benzylethylmethylphenylammonium chloride The number of radicals of each kind does not affect the order (e g, *benzyl* precedes *ethyl* no matter how many of each are present), but the compound name of a substituted radical is treated as a unit with its own alphabetic position, thus *dimethylamino*, Me₂N, follows *benzyl* but precedes *ethyl*. When the complete name has been formed it is alphabetized as any other word

8 Parentheses, brackets and even braces are used where necessary to mark off complex radical names

9 Familiar methods of numbering are employed (Greek letters for acids, alcohols etc., and for side chains, arabic numerals for Geneva names and rings) The numbering of complex nuclei is shown in the index under the parent compounds, it is practically identical with that of Richter's 'Lexikon' so far as that work goes For the more

¹ Patterson and Curtin *J Am Chem Soc* 39 1623-38(1917)

² For the principles used in naming certain parent ring systems and especially in distinguishing isomeric forms by the use of bracketed numbers and letters in the middle of the name see Patterson *J Am Chem Soc* 36, 3074-87(1913)

³ This order is an attempt to express not the relative chemical importance of functions but general usage in selecting one of them for the ending of the name. For a recent study of the literature on this question see Patterson *Rec trav chim*, 48, 1012-17(1929)

recently discovered forms the 'Proposed International Rules for Numbering Organic Ring Systems' ¹ have been adopted as a standard

10 When two or more numberings are equally indicated that one is chosen which gives the smallest number or numbers for the *chief function*, then for double bonds if these must be regarded, then for triple bonds, then for point of attachment (doubled molecules), then for substituents

11 Unnecessary numbers are avoided thus, in Δ^1 -1-cyclohexanol the 1 is not needed because by the rules in paragraph 10 the OH group is assumed to be in position 1

12 Numbers in parentheses are used to indicate the position of entering hydrogen necessary to the existence of the compound, thus, 4(3)-quinolone is equivalent to 3,4-dihydro-4-ketoquinoline

13 Doubled molecules or radicals are indicated by names commencing with *bi* (as *o,o* biphenol, biphenyl, Δ^1 bipiperidine) *Bis* is used for like molecules united by a bivalent radical and for double complex expressions, as, methylenebisphenol bis(dimethylamino)-

In using the *cross references*, the *general* nature of many of them should be kept in mind thus, the reference "Benzene, ethoxy See Phenetole" is applicable not only to this compound itself but to derivatives, which are indexed under it rather than under *Benzene*

ORGANIC RADICALS

An extensive list of preferred names for organic radicals was given in the 1927 Index in a place corresponding to this and also in the Introduction of the Second Decennial Subject Index With few exceptions they are the ones in common use Attention is here called merely to the preferred names for some radicals having more than one name in the literature and to some radical names recently adopted

BY NAMES

acenaphthanyl $C_{10}H_7$ —
acetyl CH_3CO —
acridyl $C_{13}H_9N$ —
acrylyl CH_2CHCO —
amyl C_5H_{11} —
anisal $p-MeOC_6H_4CH_2$ —
arsono $(HO)_2OAs$ —
arsyl $AsAs$ —
arsylene $HAAs$ —
azaryl 2,4,5-(CH_2O) $_3C_6H_2$ —
benzal C_6H_5CH —
benzenyl C_6H_5C —
benzyl $PhCH_2(OH)CO$ —
benzofuryl C_8H_5O —
benzohydryl Ph_2CH —
boryl $O B$ —
butylene $-(CH_2)_4-$ (1,4 form shown)
camphanyl (from camphor) $C_{10}H_{17}$ —
camphoroyl (from camphoric acid) $C_8H_5(CO)_2$ —
camphoryl (from camphor) $C_{10}H_{15}O$ —
cataphorylidene (from camphor) $C_{10}H_{15}O$ —
caproyl $CH_3(CH_2)_4CO$ —
capryl $CH_3(CH_2)_6CO$ —
caprylyl $CH_3(CH_2)_7CO$ —
carbamido $HNCO^N H$ —
carbamyl H_2NCO —
carbethoxy $EtOOC$ —
carbomethoxy $MeOOC$ —
carbonyl $OC=$ —
carbyl $-C-$ —
ceryl $Me(CH_2)_{14}$ —

cinnamal $PhCHCHCH$ —
citra (from citraldehyde) C_6H_5CH —
cresotyl (from cresolic acid) 3,3-(HO)(CH_3) C_6H_3 —
 H_2CO —
cresyl $(HO)MeC_6H_4$ —
cumal $p-MeCHCHCH$ —

cyclohexadienyl $CH_2CHCHCHCHCH$ —
cyclohexadienylidene (Δ^1 & or Δ^2 & Δ^3 shown)

$CHCHCHCHCHCH$

epoxy $-O-$ —
ethynyl HC —
ethynylene $-C C-$ —
ethylene $-CH_2CH_2-$ —
fenchyl (from fenchyl alcohol) $C_{10}H_{17}$ —
fluorenylidene (from fluorene) $C_{13}H_9$ —
formyl OHC —
fural C_4H_3OCH —
furyl C_4H_3O —

furylidene (2 isomers) $CHCH_2OCH_2C$
4 5 1 2 3

guanido $H_2NC(NH)N H$ —
guanyl $H_2NC(NH)-$ —
hippuryl $PhCONHCH_2CO$ —
indylidene (from indole) C_8H_7N —
isomeric $HOON$ —
isomeric HOV —
isopropenyl $MeC(CH_3)=$ —

¹ Patterson *J Am Chem Soc* 47, 543-61(1925)

keto O
mercapto HS—
mesityl (from *meritzylene*) C_6H_3 —
methoxyl $—SC_6H_5SO_3$ —
naphthal $C_{10}H_7CH$
naphthylidene $C_{10}H_7$
oxy $—O—$
perthio (replacing O only) S S
phenacyl $PhCOCH_2$ —
phenacylidene $PhCOCH$
phenanthrylene (from *phenanthrene*) $C_{14}H_9$
phenylenedisazo $—N NC_6H_4N N—$
phenylidene = cyclohexadienylidene

phthalidene (from *phthalide*) $\begin{matrix} C_6H_4 \\ | \\ CO \\ | \\ CO \end{matrix}$
phthalidyl (from *phthalide*) $\begin{matrix} C_6H_4 \\ | \\ CO \\ | \\ COCH_2 \end{matrix}$ —
piperonyl 3,4 $(CH_3O)_2C_6H_3CH_2$ —
divalyl (from *pyruvic acid*) $(CH_3)_2CCO—$
propenyl $MeCH CH_2$ —
propenylidene $CH_2CH C$
pseudocumyl $(CH_3)_3CCH_2$ —
pyranyl $C_4H_5O—$
pyridylidene C_5H_4N
quinonyl $(O)_2C_6H_2$ —

quinoxalyl (from *quinoxaline*) $C_8H_4N_2$ —
salicyl o HOC_6H_4 —
salicylal o HOC_6H_4CH
salicylyl o $HOC_6H_4CO—$
selenyl HSe—
semicarbazido $H_2NCONHNH—$
stannyl $HSn—$
stibono $(HO)_2OSb—$
stibyl $HSb—$
stibylene HSb
tyryl $PhCH CH_2$ —
valeryl OS
sulfonyl O_2S
terephthalal (from *terephthalaldehyde*) $HC(C_6H_4)CH$
thenoyl (from *thiophenecarboxylic acid* 2 isomers)
 $C_6H_4SCO—$
thienyl (from *thiophene*) $C_4H_3S—$
toloxy $MeC_6H_4O—$
toluono $MeC_6H_4NH—$
α toluyl $PhCH_2CO—$
tolyl MeC_6H_4 —
triazonyl (from *triazine*) $C_4H_3N_3$ —
triazono N_3 —
veratryl 3,4- $(CH_3O)_2C_6H_3CH_2$ —

RING INDEX

The following index of *ring complexes* is arranged as shown by the bold face figures 1 Ring Systems, with single figures indicating simple rings of 3 5 etc. members 2-Ring Systems two figures denoting double rings of 3 and 4 3 and 5 etc., members, then the triple and still more complex forms Under each combination of figures the kind and number of atoms in the ring or rings are expressed in formulas These formulas are arranged so that their initial rings are in the same order as in the Formula Index (see Key at the beginning of it) If the initial rings are alike the second rings of the formula are considered and so on. By this means the reader will be able to learn the name used in the index for the simplest parent compound containing any particular ring or combination of rings and by turning to this name in the index he will find the compound listed and perhaps cross references to names of derivatives Rings which are united but which have no atoms in common (e.g. biphenyl) and 'spiro compounds' which are characterized by two rings having but one atom in common are not regarded as ring complexes nor included in this index

To illustrate 6,6,6 $C_4N_7-C_4C_4$ Benzocinnoline

Perimidine

Phenazine

(1) This designates a complex ring of three components each of six members, (2) the first is heterocyclic, containing four carbon atoms and two nitrogen atoms and the other two are carbocyclic rings of six atoms each, (3) parent compounds of this configuration will be found in the index under the three names given If derivatives are indexed a structural formula will be found with the proper numbering and also appropriate cross references to derivatives having other common names if any such are in the index

It should be noted that the classification is made with reference to the smallest rings which, placed together, will constitute the plane formula Thus hexamethylene-tetramine is treated as a 6 6 6 complex although a fourth six membered ring (composed of atoms from the three six membered rings) is also present

1-RING SYSTEMS

3 CFS Triphosphorane
C₃N Ethylenimine

C₂O Ethylene oxide
C₂S Ethylene sulfide
C₃ Cyclopropane

¹ All members of this class will be found together under 'Spiro' in the Subject Index.

- Cyclopropene
 4 C₂N₂ Diazetine,
 C₂N Azete
 C₄ Cyclobutane
 1 C₂N₄ Tetrazole
 C₂N₂O Furazan
 Oxadiazole
 C₂N₂S Thiodiazole
 C₂N₂ Triazole
 C₆OPS Liquid b.p. 93° from HSCH₃CO₂H and
 PCl₅, 914°
 C₂N₂O Isoxazole
 Oxazole
 C₂N₂S Thiazole
 C₂N₂ Imidazole
 Pyrazole
 C₂O₂ Dioxolane
 Dioxole
 C₂S₂ Dithiole
 C₂N Isopyrrole
 Pyrrole
 Pyrrolemine
 Pyrrolidine
 Pyrroline
 C₂O Furan
 C₂S Butadiene 2,3 - sulfone <1,4> 2 -
 methyl-, polymer
 Thiophene
 C₂Se Selenophene
 C₂Te Tellurophene
 C₅ Cyclopentadiene
 Cyclopentane
 Cyclopentene
 6 C₂N₂O₂ Dioxadiazine
 C₂N₂ Tetrazine
 C₂O₂ Levulinic acid, peroxide*
 C₂N₂S Isothiodiazine
 Thiodiazine
 C₂N₂ Triazine
 C₂O₂S 1,3,5-Oxadithiane*
 C₂S₂ Trithiane
 C₂N₂O Oxazine
 C₂N₂S Thiazine
 C₂N₂ Pyrazine
 Pyridazine
 Pyrimidine
 C₂OSe Selenoxazine
 C₂O₂ Dioxane
 Dioxin
 C₂S₂ Dithiane
 C₂As Arsenidine
 C₂N Piperidine
 Pyrindole
 C₂O Pyran
 C₂S Thiopyran
 C₂Se Cyclo-selenopentane*
 C₆ Benzene
 Cyclohexadiene
 Cyclohexane
 Cyclohexene
 N₂S₂ Tetrathiadiazine
 7 C₂N Hexamethylenamine
 C₂O Hexamethylene oxide
 C₂Se Selenopentane
 C₇ Cycloheptane
 8 C₂Se₂ Diselenocane
 C₂N₂ Heptamethylenamine
 C₈ Cyclooctane
 9 C₂N₂ Compd. (1), 5428°
 10 C₂ Cyclopentadecane
 11 C₂ Cyclohexacosane
 12 C₂ Cyclohexacosane
 23 C₂ Cyclooctacosane
 24 C₂ Cyclodotriacontane
- 3-RING SYSTEMS**
 3,4 C₂-C₂O Cyclopropanecarboxylic acid, 2-hy-
 droxy 2,3-diphenyl β lactone
 C₂-C₂ Bicyclo[2.1.0]pentane
 3,5 C₂O-C₂N₂ 3-Oxazoline, 4,5-epoxy-
 C₂-C₂N 1,2 Cyclopropanedicarboximide
 C₂-C₂O 1,2 Cyclopropanedicarboxylic an-
 hydride
 C₂-C₂ Bicyclo[3.1.0]hexane
 3,5 C₂O-C₂ 2-Oxabicyclo[6.1.0]nonane
 4,5 C₂N₂-C₂N₂O 2,5-Endoxy 1,3,4 triazole*
 C₂N₂-C₂N₂ Endominothiothiothiazole*
 4,5 C₂As₂Y C₂ Benzarsazete
 C₂HgO-C₂ β - Resorcylic acid 5 - (hydroxy
 mercuri)-, anhydride
 C₂ C₂ Δ²Bicyclo[3.1.1]heptene
 Norbornane
 5,5 C₂N₂-C₂N₂ Glycoluril
 C₂N C₂N Pyrrolopyrrole
 C₂O-C₂O 1,2,3 - Butanetricarboxylic acid, 1
 hydroxy 1,2-anhydride, γ-lac-
 tone, 1833°
 Furofuran
 C₂-C₂ Δ²Bicyclo[2.2.1]heptene
 Bicyclo[3.3.0]octane
 Norcamphane
 5,6 C₂N₂-C₂-C₂ Isobenzodithiazole
 C₂N₂-C₂ Benzofurazan
 C₂N₂-C₂N₂ Triazolopyridazine
 C₂N₂-C₂ Benzotriazole
 C₂OP₂-C₂ 4 Homopropocatechol esters of phos-
 phorus acids
 C₂N₂O-C₂N₂ Trigonelline
 C₂N₂O-C₂ Benzisoxazole
 Benzoxazole
 C₂N₂-C₂ Benzisothiazole
 Benzothiazole
 C₂N₂-C₂N₂ Pyrimidazole
 C₂N₂-C₂ Benzimidazole
 Indazole
 Isoindazole
 C₂OSe-C₂ Benzisothiazole
 C₂N₂-C₂N₂O Pyriroloxazine
 C₂N₂-C₂N₂ Pyrirolopyrazine
 Pyrirolopyridazine
 C₂N C₂N Pyrrocoline
 C₂N C₂ Indole
 Isoindole
 Pseudoindole
 C₂O-C₂N₂ Eupripyridazine
 C₂O-C₂ Benzofuran
 Isobenzofuran
 C₂S-C₂ Isothionaphthene
 Thionaphthene
 C₂ C₂N₂ Cyclopentapyrimidine
 C₂ C₂N Pyridine
 C₂ C₂ Indan
 Indene
 5,7 C₂N₂ C₂N Cardiazole*
 6,6 C₂N₂-C₂N₂ Pentamethylenetetramine
 C₂HgO-C₂ 2,5 - Anhydro - 5 - hydroxy
 mercuri - 2 hydroxy 3
 methoxybenzaldehyde*
 C₂N₂-C₂ Benzoxazine
 C₂N₂-C₂ Benzothiazine
 C₂N₂-C₂N₂ Pyridazopyridazine
 C₂N₂-C₂ Fthalazine
 Quinoxaline
 Quinoxaline
 C₂O-C₂O₂ Dioxinodioxin

- C₄O₂ C₈ Ascaridole
 Begorodioxan
 C₄N C₄N Bispidine
 Pyridopyridine
 Quinolizine
 C₄N C₅ Isoquinoline
 Quinoline
 C₄O-C₄O Glutaric acid β (ββ dihydroxy
 αα dimethylpropyl) β
 methyl cyclic dilactone
 2 Indanomalonic acid 2 (ββ
 dihydroxypropyl)hexahydro d
 lactone
 C₄O C₄ Benzopyran
 Benzopyrylium
 3 β Menthaneacetic acid 4
 chloro 1 hydroxy β lactone
 3 Oxabicyclo[3.3.1]nonane
 C₄S-C₄ Benzothiopyran
 C₄C₄ Naphthalene
 6 7 C₄-C₄N₂S Benzothiadiazepine
 C₄-C₄N₂ Glycine N anthranoyl lactam
 Leucine N anthranoyl lactam
 C₄-C₄O Homochroman
 C₄-C₇ Benzocycloheptadiene
 Benzosuberone
 7 7 C₄N₂O C₄N₂O Compd m 95-7° from
 glyoxal and urea 279⁴
- 3 RING SYSTEMS**
 3 5 5 C₄-C₄ C₄ Tricyclo[2.2.1.0¹]heptane
 4 5 5 C₄-C₄ C₄ Dicyclopentadiene*(?)
 4 5 5 C₄-C₄-C₄ Compd (I) 5415²
 5 5 5 C₄N₂ C₄ C₄ Addition compd 1807⁴
 C₄N C₄N C₄ Methanopyridine
 C₄-C₄ C₄ Methanonitride
 5 5 5 C₄NS C₄S C₄ Thionaphthothiazole
 C₄N₂ C₄N C₄ Imidazoisindole
 Pyrrolobenzimidazole
 C₄N C₄N C₄N₂ Dipyrrolopyrazine
 C₄N C₄N C₄ Benzodipyrrole
 C₄N C₄ C₄ Cyclopentindole
 C₄O-C₄O C₄ Benzodifuran
 C₄O C₄S C₄ 2 Thionaphthenecarboxylic
 acid 1 1 carbonylβ
 anhydride
 2 Thionaphthenecarboxylic
 acid 1 o carboxybenzoyl
 anhydride
 1 2 Thionaphthenedicar
 boxylic anhydride
 C₄O C₄-C₄O 7 Norcamphanecarboxylic
 acid 2 hydroxy 2 3 3
 trimethyl lactone
 C₄-C₄ C₄N₂ Methanoquinazoline
 5 5 8 C₄S-C₄S C₄S Indophenol
 5 6 6 C₄N₂O C₄-C₄ Naphthothiazole
 C₄N₂-C₄N₂-C₄ Triazoloquinazoline
 C₄N₂-C₄-C₄ Naphthotriazole
 C₄NO C₄-C₄ Naphthoxazole
 C₄NS-C₄N C₄ Thiazoloquinoline
 C₄NS-C₄-C₄ Naphthothiazole
 C₄N₂-C₄N₂O-C₄ Pyrazobenzoxadiazine
 C₄N₂ C₄NS-C₄ Pyrazobenzothiadiazine
 C₄N₂-C₄N₂-C₄ Pyrazobenzotriazine
 C₄N₂-C₄N C₄ Imidazoquinoline
 Imidazoquinoline
 Pyrazoquinoline
 C₄N₂-C₄ C₄ Naphthimidazole
 C₄N C₄N C₄ Benzopyrrocoline
 Benzopyrrocolinum
 Pyridazole
 C₄N C₄ C₄ Carbazole
- Naphthazole
 C₄O C₄N₂-C₄ Furoquinoxaline
 C₄O-C₄N C₄ Furoquinoline
 C₄O-C₄O-C₄ 3 Menthaneomalonic acid
 1 4-dihydroxy dilactone
 C₄O C₄ C₄ Dibenzofuran
 Isobenzofuran
 Naphthofuran
 C₄S C₄NS-C₄ Thionaphtheneothiazine
 C₄S C₄ C₄ Dibenzothioephene
 Naphthothioephene
 Thiophanthrene
 C₄ C₄N C₄ Cyclopentaquinoline
 C₄ C₄-C₄ Acenaphthene
 Acenaphthylene
 Fluorene
 Naphthandian
 5 6 7 C₄N C₄-C₄N Azepindole
 C₄N C₄ C₇ Cycloheptindole
 4 4 4 C₄NO₂-C₄-C₄ Naphthariloxanthiazine
 C₄N₂ C₄N₂-C₄N₂ Hexamethylenetetramine
 C₄AsN C₄-C₄ Phenarsazine
 C₄AsO C₄-C₄ Phenoxarsine
 C₄Hg₂ C₄-C₄ 1 2 Bimercurihiphenyl*
 C₄NS-C₄-C₄ Isophenothiazine
 Phenothiazine
 C₄N₂-C₄N₂-C₄ Pyrazinoquinoxaline
 Pyridasophthalazine
 C₄N₂ C₄-C₄ Benzocinnoline
 Benzoquinazoline
 Perimidine
 Phenazine
 C₄OS-C₄-C₄ Phenothioxan
 C₄As-C₄ C₄ Arsidarsine
 C₄N C₄-C₄ Benzquinolizine
 Benzoquinolizinium
 Pyridoquinolene
 C₄N C₄-C₄ Acridine
 Benzoquinoline
 Benzoquinone
 Phenanthridine
 C₄O C₄O C₄ Benzodipyran
 C₄O C₄-C₄ Naphthopyran
 Xanthene
 C₄S-C₄S C₄ Benzodithiopyran
 C₄S-C₄-C₄ Naphthodithiopyran
 Thioxanthene
 C₄-C₄-C₄ Anthracene
 Benzonaphthene
 peri-Naphthandian
 Phenanthrene
- 6,6 7 C₄ C₄-C₄N Diphenamide
 6 6 8 C₄ C₄-C₄As₂ Compd m 177-8° 1228²
 C₄-C₄ C₄O₂S₂ m Toluenesulfonic acid 5-
 (fluorosulfonyl) 2 (and
 4) hydroxy bisol cyclic
 sulfonylides
 Xylenesulfonic acid 2 by
 droxy bisol cyclic sul
 fonylides
 C₄-C₄ C₄N₂ o-Benzylene-1 3 1 epz midazole*
 6,6,10 C₄-C₄-C₄S₂ Diphenyl disulfide*
 6 6 11 C₄-C₄-C₄N₂ Diphenyleneurea*
- 4 RING SYSTEMS**
 3 5 5 5 C₄O C₄ C₄-C₄ Dicyclopentadiene * mon
 oxides
 4,6 6 6 C₄N-C₄-C₄ C₄ Compd m 180° (de
 compn) 101²
 5 5 5 5 C₄N₂-C₄O C₄-C₄ Compd C₄H₁₀O₄N₂
 1807³
 C₄N₂-C₄-C₄-C₄ Methanoindenotriazole
 5 5 5 5 C₄N₂-C₄ C₄ C₄ Compd II 1807⁴

- C₆O-C₆O-C₆O-C₆O-Mellitic trianhydride
5 5 6 6 C₈A₂S-C₈A₂S-C₈-C₈ Compd m. 177-5°, 1225°
 C₈N₂-C₈N₂-C₈N₂-C₈Benzimidazopyrrolooxypyrrrole
 C₈N₂-C₈N₂-C₈-C₈Pseudospondolobenzimidazole
 C₈\ C₈+C₈-C₈Benzocyclopentindole
 Indenonoxide
 C₈O-C₈S-C₈-C₈1 β-Naphthothiophenecarboxylic acid 2,2'-carbonylbis-, anhydride
 1 β-Naphthothiophenecarboxylic acid, 2-o-carboxybenzoyl-, anhydride
 1 2 β-Naphthothiophenedicarboxylic anhydride
 3 Thiophanthrenecarboxylic acid 2,2'-carbonylbis-, anhydride
 3-Thiophanthrenecarboxylic acid 2-o-carboxybenzoyl-, anhydride
 2,3-Thiophanthrenedicarboxylic anhydride
 C₉-C₉C₉N-C₉N Ethenopyrrolacene
6 6 6 6 C₈N\ C₈-C₈-C₈ Anthraethiazole
 Anthrisothiazole
 C₈N₂-C₈N₂-C₈-C₈Imidazophenazine
 C₈N₂-C₈-C₈-C₈Anthrappyrzole
 C₈\ C₈+C₈-C₈Anthrappyrrole
 Benzocarbazole
 C₈O-C₈-C₈-C₈1,4-Anthracenedicarboxylic acid 9,10-dihydroxy-, mono γ-lactone
 Anthrafuran
 1 Anthroic acid, 9,10-dihydroxy-, γ-lactone
 Phenanthrofuran
 C₈S-C₈-C₈-C₈Anthraethiophene
 Benzoethiophanthrene
 C₈-C₈N₂-C₈-C₈Indenoquinoxaline
 C₈-C₈N₂-C₈-C₈Indenoquinoline
 Isoundenoquinoline
 C₈+C₈-C₈-C₈Acenaphthudan
 Benzofluorene
 Chrysofluorene
 Fluoranthene
5,6,6,7 C₈S-C₈-C₈-C₈N 2-Thionaphthene carboxylic acid, 1 anthranoyl cyclic lactam
5 6,6,10 C₈S-C₈-C₈-C₈OS 3-β-Naphthothiophenol, 6-(carboxymethylmercapto)-, cyclic lactone
6 6 6 6 C₈As₂N-C₈N C₈-C₈Quinobenzarsazine
 C₈N-S-C₈-C₈-C₈Anthirathizane
 Anthrisothiazine
 C₈N\ C₈-C₈-C₈-C₈Benzophenazine
 Naphthophthalazine
 Naphthoquinazolinone
 C₈OS-C₈-C₈-C₈Benzophenothioxin
 C₈N-C₈O-C₈-C₈Xanthenopyridine
 C₈N C₈-C₈-C₈-C₈Benzacridine
 Benzophenanthridine
 Dibenzoquinoline
 Naphthoquinoline
 C₈O-C₈-C₈-C₈Benzoxanthene
 C₈+C₈-C₈-C₈Benzanthrene
 Chrysene
 Ethanoanthracene
 Ethenoanthracene
 Naphthacene
 Pyrene
6 6 6 7 C₈-C₈-C₈-C₈O o-Toluic acid, α-(2-hydroxy 1 naphthyl) lactone
 o-Veratric acid 6-(2-hydroxy 1 naphthylmethyl) lactone
 C₈-C₈-C₈-C₈peri(1,8) Phthaloyl 2-naphthol

4 RING SYSTEMS

- 1 2 3 5 5 C₅O-C₅N₂-C₄-C₄-C₄ Dicyclopentadiene * monoxide (triazole from)
 1 2 3 5 5 C₄-C₄-C₄-C₄-C₄ Tricyclopentadiene* (?)
 1 2 3 5 5 1,4 C₅S-C₅S-C₅S-C₅-C₅-C₅ α Dithienyl bis(α ketodihydro-β bromoindolene) is-
 1,5 5 5 5 6 C₅N₂-C₅N₂-C₄-C₄-C₄ Isomolonoaphrimidazole
 C₅N₂-C₅N₂-C₅N₂-C₄-C₄ Dundolopyridine
 C₄O-C₄O-C₄-C₄-C₄ Pseudonanthrahydroquinone 1,2-dicarboxylic acid lactone*
 C₅S-C₅S-C₄-C₄-C₄ Benzothioanthraphene
 1,5 5 5 5 8 C₅S-C₅S-C₄-C₄-C₄O 2-Thioanthrophecarboxylic acid 1,1'-carbonylbis- anhydride
 1,6 5 5 6 C₄N₂-C₄N₂-C₄-C₄-C₄ Benamidazobenzisquinoxaline
 C₅N₂-C₅N₂-C₄-C₄-C₄ Indoloacridine
 C₄O-C₄O-C₄-C₄-C₄ Naphthofurobenzopyryrium
 C₄O-C₄-C₄-C₄-C₄ Dinaphthofuran
 Furanooanthracene
 C₅S-C₄-C₄-C₄-C₄ Dibenzothioanthrene
 Dinaphthothiophene
 C₄-C₄N₂-C₄-C₄-C₄ Acenaphthoquinoxaline

C₅-C₅-C₅-C₅-C₅ Cyclopenteno-1,2-benzanthracene*

- 5,6,6,6,6 C₅N₅-C₅N₅-C₅N₅-C₅-C₅ Fluorubine
 C₅N₅-C₅N₅ C₅N₅-C₅-C₅ Isoquinoline red
 C₅N₅-C₅-C₅-C₅-C₅ Dibenzophenazine
 C₅OS-C₅-C₅-C₅-C₅ Dibenzophenothioxin
 C₅N₅ C₅N₅ C₅-C₅-C₅ 1,8,9,10-Phenanthrenetetracarboximide, *N,N*-diphenyl
 C₅N₅ C₅ C₅ C₅-C₅ 1,2-Benzanthrene-4,5-dicarboximide
 4-*meso*-Benzanthrene-7,8-dicarboximide, 4 keto
 Benzonaphthoquinoline
 Dibenzacridine
 Naphthacridine
 C₅O-C₅O-C₅-C₅-C₅ 1,8,9,10-Phenanthrenetetracarboxylic dianhydride
 C₅O-C₅-C₅-C₅-C₅ 1,2-Benzanthrene-4,5-dicarboxylic anhydride
 4-*meso*-Benzanthrene-7,8-dicarboxylic anhydride, 4 keto
 Dibenzoxanthene
 Dibenzoxanthylum
 C₅-C₅-C₅-C₅-C₅ *o*-Benzeno[5,10]anthracene
 Benzonaphthacene
 Dibenzanthracene
 Dibenzophenanthrene
 Pentacene
 Perylene
 Picene
 6,6,6,6,7 C₅-C₅-C₅-C₅-C₅O₅ Dehydro deriv. from 1,1'-(*o*-chlorobenzal)bis-2-naphthol, 291
 C₅-C₅-C₅-C₅-C₅N₅ Naphthomorphanthridine
 6,6,6,6,16 C₅-C₅-C₅-C₅-C₅Si₅Di 1,5-naphthalenedisulfide*
 1,5-Naphthalenedithiodisulfonic acid 1,5-naphthalene ester*

6-RING SYSTEMS

- 5,5,5,5,5 C₅N₅-C₅ C₅ C₅-C₅-C₅ Compd. 1807†
 5,5,5,5,6 C₅N₅-C₅N₅ C₅N₅-C₅-C₅-C₅ Phenazopseudouronolimidazole
 C₅O₅-C₅O₅-C₅N₅ C₅-C₅-C₅ Chelidonium
 C₅O₅-C₅O₅-C₅N₅-C₅-C₅-C₅ Hydrastine, dehydro*
 C₅S-C₅-C₅-C₅-C₅ 2-Thionaphthene-β-phenanthrene indigo* isomer
 5,5,5,5,6 C₅N₅-C₅N₅ C₅O₅-C₅-C₅-C₅ Benzimidazobenzosquinoxaline-3,4-dicarboxylic anhydride, 7 keto
 C₅N₅ C₅N₅-C₅-C₅-C₅ Naphthosquinoxalindole
 C₅-C₅N₅-C₅-C₅-C₅ Acenaphthobenzosquinoxaline
 C₅ C₅-C₅ C₅-C₅-C₅ Ateperylene
 Phenanthraacenaphthene*
 Phenanthrafluorene*
 6,6,6,6,6 C₅O₅-C₅O₅ C₅ C₅-C₅-C₅ 6,13-Pentacenediyl 6,13-dihydro- endocyclic perox. de
 C₅O₅-C₅O₅-C₅-C₅-C₅ Xanthoxanthene
 C₅-C₅-C₅-C₅-C₅ Anthraphenanthrene
 Dibenzochrysene
 Dibenzonaphthacene
 Dibenzopyrene
 Dibenzotriphenylene

7-RING SYSTEMS

- 5,5,5,5,5,5,5 C₅N₅-C₅N₅-C₅ C₅-C₅-C₅-C₅ Compd. III, 1807†
 5,5,5,5,5,5,6 C₅N₅-C₅N₅-C₅N₅ C₅N₅ C₅-C₅-C₅ Dinsoindolobenzobisimidazole
 5,5,5,5,5,6 C₅N₅ C₅N₅ C₅-C₅-C₅-C₅-C₅ Dipyrroloperylene
 C₅S-C₅S-C₅-C₅-C₅-C₅ Benzonaphthothioephene
 5,5,5,5,5,6 C₅N₅ C₅-C₅-C₅-C₅-C₅-C₅ Dinaphthocutbazole
 C₅O-C₅-C₅-C₅-C₅-C₅ Dianthrafuran
 C₅-C₅N₅-C₅N₅-C₅-C₅-C₅ Acenaphthaphenazine*
 6,6,6,6,6,6 C₅N₅-C₅N₅-C₅-C₅-C₅-C₅ Dibenzosquinoxalophenazine
 C₅N₅-C₅-C₅-C₅-C₅-C₅ Anthrazene
 Indanthrene
 C₅-C₅-C₅-C₅-C₅-C₅ *o*-Benzeno[6,13]pentacene
 Benzonaphthochrysene
 Dibenzoperylene
 6,6,6,6,6,10 C₅-C₅-C₅-C₅-C₅-C₅O₅ 6,13-Pentacenediyl 6,13-dihydro- hydroquinone ether

8-RING SYSTEMS

- 5,5,5,5,5,5,5,5 C₅S-C₅S-C₅-C₅-C₅-C₅-C₅-C₅ Chrysobithionaphthene
 6,6,6,6,6,6,6,6 C₅N₅ C₅N₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅ Flavanthrene
 C₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅ Naphthodianthrene
 Pyranthrene
 9-RING SYSTEMS
 5,5,5,5,5,5,5,5,5 C₅N₅ C₅N₅ C₅N₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅ Dianthracene-1,2-indoxyl anhydride*
 6,6,6,6,6,6,6,6,6 C₅N₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅ C₅ 6,6' - Dibenzo *N,N'* dihydro - 1,2,1,2
 anthraquinonazine*
 C₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅-C₅ *meso*-Anthradianthrene*
 Di-*o*-benzeno[5,14-7,12]pentacene

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1519¹

— 8 methoxy- diacetate 1020¹

2,5 - Anthradol, 9,10 - diethyl - 9,10 - dihydro-3,7-dimethoxy- 4538⁷

2,10 Anthradol 7 methoxy and diacetate 1519¹

9,10 Anthradol compd with BrH 948¹

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and derivs 3933¹

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1 - [1,9 βγ]



6 - [9,10 βγ]

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— 5 (2 anthraquinonylamino) 1 - phenyl 4258⁷

— 8-chloro 1 phenyl 4238⁷

2 Anthra[9,10 βγ] 6 furanoxyl 2 - (p chlorophenyl) 2 hydroxy 3990⁷

— 2 hydroxy 3 methyl 2 phenyl 3990⁷

— 2 hydroxy 2 phenyl 3990⁷

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— 1 [(1 amino - 2 anthraquinonyl) methyleneamino] 9,10 - dihydro - 9,10-diketo- 947¹

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2 Anthramine 947¹

— 1 phenyl 2996¹

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— 4,4 - arsenobis[3 hydroxy bestino- semicarbazone P 96¹

— 6-chloro P 2859

— 4 nitro- P 964¹ P 2859¹

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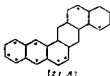
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color reaction of 1061¹

equiv wt of cryst, 3541¹

- ester of $\text{Pb}(\text{H}(\text{OH})\text{CCl}_4$ 5711¹
 esters decompn of, 3620¹
 ethyldenehydrazide 4532¹
 and hydrochloride spectra of, 4 97¹
 mol vol of 2886¹
 — \backslash acetyl reaction with Br, 2⁰⁰¹
 — \backslash acetyl 5 amino-1 benzyl ester
 HCl 4245¹
 — \backslash acetyl 7 bromo-5 hydroxy-,
 2⁰⁰¹
 — \backslash acetyl \backslash chloro- velocity coeff of
 formation of 4334¹
 — \backslash acetyl 5 nitro- and benzyl ester,
 4.44¹
 — \backslash acetyltetrabromo 2⁰⁰¹
 — 5 amino- \backslash isobutyl \backslash benzyl ester,
 HCl 4245¹
 — 5 amino \backslash propionyl \backslash benzyl ester
 HCl, 4245¹
 — 4-bromo- methyl ester 1522¹
 — 4 bromo \backslash carboxymethyl)
 dimethyl ester 1522¹
 — \backslash α bromoisocaproyl 49
 — 5 bromo 4 isopropyl \backslash color reaction
 of 150¹
 — \backslash 2-camphanylidene lead salt 940
 — \backslash carboxy See *Isomeric acids*
 — \backslash chloroacetyl 49¹ 4288
 — \backslash (N chloroacetyl)glycyl 4.88¹
 — \backslash (N-chloroacetyl)leucyl 492¹
 — \backslash (5-chloro- α -tolyl) 2146¹
 — \backslash [3 4 (and 3 5) dichlorophenyl]
 2146¹
 — \backslash glycyl 492¹ 4⁰⁵⁵
 lactam 49¹
 — \backslash (N glycyl)glycyl 4⁰⁵⁵
 — \backslash (N hydroxyisocaproyl 49¹
 — \backslash isobutyl-5 nitro benzyl ester
 4244¹
 — \backslash (10 keto 5 10) - anthrylidene)
 54⁰²¹
 — \backslash leucyl lactam and derivs 492¹
 — \backslash N [3-methyl 1-(p nitrophenyl)]
 5(4) 1 2 4-triazolylidene) - 3851¹
 — \backslash (4-methylquinolyl) P 4663¹
 — 5 nitro \backslash N diphenyl 500¹
 — 5-nitro- \backslash N propionyl benzyl ester
 4244¹
 — \backslash (phenylthiocarbonyl) 3001¹
 — \backslash N [2 (and 3) - pyridylcarbonyl]
 and methyl esters 3000¹
 — \backslash (N 3 pyridylcarbonyl)anthra
 nyl, and methyl ester 3000¹
 — 5 stibeno- derivs 4245¹
 — \backslash thiocarbonyl derivs, ring closure
 of 3001¹
 — 5-thiocyano- P 5356¹
 — 3 4 5 tribromo P 4358¹
 — 3 4 5 trichloro P 4358¹
 — N-(3,4 5 trichlorophenyl) 2146¹
 Anthranol See *Anthrad*
 Anthra[3,1 β]phenanthrene



2¹⁷¹

Anthrapurpurin (1,2,7-trihydroxyanthracen-
 none)
 —, 2 7 diacetoglucoyl*, methyl ether*,
 3992¹
 meso-Anthrapyrazole,



- 3 meso - Anthrapyrazolecarboxylic acid
 2 6-dihydro-6-keto-, P 2440¹, P 51¹
 6 3 - meso - Anthrapyrazolone, 2 acyl de-
 rivs of, P 2442¹
 condensation products of, P 2358¹
 derivs, P 2154¹, P 969¹, P 3135¹
 —, 3 (1-anthraquinonyl)-, P 55¹
 —, 3 (3 - carboxy - 2 - naphthyl) -, P
 5576¹
 —, 3-(α -carboxyphenyl), P 55¹
 —, 3 (dichlorobenzoyl)-, P 969¹
 —, 3,3 dimethyl-, P 2358¹
 —, 3 (o-nitrophenyl)-, P 55¹
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 acetyl-*(7), 4261¹
 Anthrapyrimidine See *Anthraquinonolines*
 Anthrapyrrole



- Anthra[2,1 - β]pyrrole - 3 - carboxylic acid
 3 - acetyl - 1,3 - dihydro - 1 - keto -
 ethyl ester, 948¹
 — 1,2 dihydro-1-keto-, ethyl ester, 948¹
 — 1-hydroxy-, ethyl ester, K deriv, 948¹
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 2 6 - dihydro - 2 - hydroxy - 6 - keto -,
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 Anthra[2,1 - β]pyrrole - 1 2 - diene, and
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 Anthra[1,10 - δ]pyrrol - 6 - oxyl 1 2 - di-
 hydro - 1 - methyl - 2 - xyl - and
 compd with heptane 5420¹
 — 1 2 dihydro-2-xyl-, 5420¹
 Anthraquinhydrone, 2141¹
 sodium deriv, compd hwt EtOH and
 EtONa, 695¹
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 Anthraquinoline See *Benzoquinoline*
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 anthracene),



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 in the nucleus, 3993¹

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 aminodiaro derivs, P 3384¹
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 1-arylamino-4-halo derivs of P 2438¹
 1-aryl derivs radical sulfonic acids with
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 2438¹ 2736¹ 3013¹ 3667¹ 3668¹ 4558¹
 4559¹ 4894¹ 5177¹ 5434¹
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 phthalic anhydride and phenols, 1953¹
 derivs reduction of, P 1263¹
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 —, 2 amino prepn of, from CdH₄(CO)₂O
 and PbBr 4877¹
 —, 1-amino 2 acetoglucoxy * 4262¹
 —, 1 - [(1 - amino - 3 - anthraquinonyl)
 methylenesulfone] 3 (phenylimino
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 —, aminobenzamido- P 3672¹
 —, 1 - amino - 4 - bromo - 3 chloro -,
 sepn of, from 2 amino-1 bromo-3 chloro-
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 —, 2 amino 1 bromo-3-chloro- sepn of
 from 1 amino 4 bromo 2 chloroan-
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 —, 1 amino-5-chloro 948¹
 —, 1 amino-6 chloro- spectrum of 5431¹
 —, 2-amino 1 chloro, 1241¹ 1242¹
 —, 2 amino-3 chloro- P 1100¹ P 4899¹
 —, 2 amino 7-chloro -, P 4717¹
 —, 1 amino 3 (β-chlorovinylmercapto)
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 —, 5-amino 1,4 dimethoxy- 3648¹
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 —, 2 amino 3 hydroxy- P 2005¹
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 —, 1 amino 2 (phenyliminomethyl)-
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 —, 6 amino 1,2,3,4 tetrahydro 3993¹
 —, 1 amino 5 p-tyl amino 948¹
 —, 1 benzoyl monoxime reaction and
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 —, 1,5 bis(2-amino 1 naphthylazo)
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 —, 1,5 bis(4-amino-1-naphthylazo)
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 —, 1,5 bis(p-aminophenylazo) 2718¹
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 —, 1,5 bis(2,4-dihydroxyphenylazo) -
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 —, 2 chloro P 4894¹
 —, 1 chloroacetamido 293¹
 —, 1 p chlorobenzoyl dibromo deriv of
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 —, 5 chloro 1,4 dimethoxy 3648¹
 —, 1-chloro 2 hydroxy 1242¹
 —, 2 chloro 3 hydroxy 5421¹
 —, 1 chloro - 2 (hydroxymethyl) -
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 —, 1 chloro 2 hydroxy - 3 - (α tri
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 —, 1-chloro 2 methyl P 1265¹
 —, 1 chloro 5-nitro 948¹
 —, 2 chloro 7 nitro 1821¹ P 4717¹
 —, 2 (α-chlorophenyl) P 5299¹
 —, 2 (p-chlorophenyl)- P 5299¹
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 —, 1,7 diacetoglucoxy* 3992¹
 —, 3,3 diacetoglucoxy *, 3992¹
 —, 1,4(5) diacetoxy - 8 - acetoglucoxy *,
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 —, 1,2 (and 2,3) diamino sulfates, P
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 —, dihydroxy- and derivs P 1263¹
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 —, 1,3 dihydroxy See Xanthopurpurin
 —, 1,5 dihydroxy See Anthraquinon
 —, 1,8 dihydroxy See Chrysazin
 —, 2,3-dihydroxy- See Hyslatarin

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- , 1,5-dimethoxy-, 2140²
- , 2,7-dimethoxy-, 1519²
- , 1,4(5)-dimethoxy-2-acetoglucosyl-, 3992²
- , 1,4-dimethoxy-5,8-bis(*p*-tolylsulfonamido)-, 3645²
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- , 1-glucosyl-, 4262²
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- , 2-methyl-1-nitro-, 947²
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- , *N,N*-oxalylbis[1-amino-2-methyl-], 947²
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- , 1,4,6-trichloro-7-(dibromomethyl)-, 3647²
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- Anthraquinonealdehyde See *Anthrakaldehyde*, 9,10-dihydro-9,10-dioxo-
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- 1 Anthraquinonecarboxanilide, 2996²
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- , methyl ester, P 965²
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- , 4-(aminomethyl)-3-hydroxy-, 1242²
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- , 1-hydroxy-8-acetoglucosyl-, 4261²
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Anthraquinone 2,1 - thiophene - 2 in doleindigo* 2723^a

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2,6 meso - Anthrathiazophene 3 carboxylic acid 6 keto P 5177^a

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—, 2 bromo 2723^a

—, 2 - (8 - keto 7 acenaphthenylidene) 2723^a

—, 2 - (3 - keto 1(3) - indylidene) 2723^a

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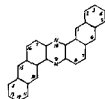
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antisera antibodies of 3380^a

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Anthraxylon, in coal of Pennsylvania, 4381^a

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2,6-meso-Anthrisothiazole-3-aldehyde

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—, 9 and 10-benzyl-9-10-dihydro

9 and 10-hydroxy-10 (and 9) keto

3420^a—, 9-10-dimethoxy 3420^a—, 9 or 10-ethyl- 3420^a

—, 9 and 10-ethyl-9-10-dihydro

9 and 10-hydroxy-10 (and 9) keto

3420^a

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—, 1,2,3,4-tetrahydro compd with 9-anthracene 1518

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1-Anthrol crit oxidation potential of 503^a2-Anthrol crit oxidation potential of 503^a

9-Anthrol (See also Anthrone)

crit oxidation potential of 503^aprepd of 589^asulfuric esters of p 5040^a—, 1,5-dimethoxy acetate 1519^a—, 2,3-dimethoxy and acetate 1519^a—, 3,4-dimethoxy, acetate 1519^a—, 3,6-dimethoxy, and acetate 1519^a—, 1,3 (and 2,4)-dimethyl acetate 4547^a—, 1,4-dimethyl acetate 2990^a—, 2,3-dimethyl acetate 3646^a

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—, 2,3-dimethyl 10-phenyl acetate

3646^a—, 1,5-diphenoxy acetate 2140^a

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—, 10-methoxy 1,3 and 2,4-di

methyl acetate 4547^a

—, 10-methoxy 2,3-dimethyl ace-

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—, 10-anilino-1,3 (and 2,4)-dimethyl-,

4547^a—, 10-anilino-1,4-dimethyl-, 2990^a—, 10-anilino-2,3-dimethyl-, 3646^a—, 10-anilino-1,5-diphenoxy-, 2140^a—, 10-anilino-3-methyl-, 4546^a

—, 10-bromo-1,3 (and 2,4)-dimethyl-,

4547^a—, 10-bromo-1,4-dimethyl-, 2990^a—, 10-bromo-2,3-dimethyl-, 3646^a—, 10-bromo-1,3-diphenoxy-, 2140^a

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—, 10 - (p - dimethylaminophenyl) -

1,3 (and 2,4)-dimethyl-, 4547^a

—, 10 - (p - dimethylaminophenyl) -

1,4-dimethyl, 2990^a

—, 10 - (p - dimethylaminophenyl) -

2,3-dimethyl, 3646^a

—, 10 - (p - dimethylaminophenyl) -

1,5-diphenoxy-, 2140^a

—, 10 - (p - dimethylaminophenyl) -

2 and 3) methyl, 4546^a

—, 10 - (p - dimethylaminophenyl) -2-

phenyl 4546^a

—, 1,4-dimethyl 10 - N - methyl-

anilino- 2990^a

—, 1,3 (and 2,4) - dimethyl -10 - phenyl -

4546^a—, 1,4-dimethyl 10-phenyl 2990^a—, 2,3-dimethyl 10-phenyl, 3646^a

—, 1,3 (and 2,4) dimethyl -10 - (1 -

piperidyl) - 4547^a

—, 1,4-dimethyl -10 - (1 - piperidyl) -

2990^a

—, 2,3-dimethyl 10 - (1 - piperidyl) -

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—, 1,5-diphenoxy -10 - (1 - piperidyl) -

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—, 10-ethyl -10-3,6,7-tetramethoxy -

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—, 1-hydroxy 2,3 and 4) - methyl -

513^a

—, 4 - hydroxy 1 (2 and 3) - methyl -

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—, 10 - methoxy - 1,3 (and 2,4) - di-

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—, 10 - (N - methylanilino) -1,5 - di-

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—, 2-methyl -10 - (1 - piperidyl) -

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


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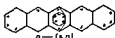
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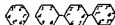
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Benzimidazobenzisquinoline - 3 4 - dicar
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2,1 *peri* - Benzisoquinoline - 2(3) - acetyl chloride, 1,3-diketo-, 3325²

2,1 *peri* - Benzisoquinoline - 1,3(3) dione See Naphthalimide

Benzisoxaloxazole (Benzisothiazole 5-dioxide) 945²

— 1 acetyl 1,3 dihydro-, 925²

— 2-(β aminophenyl)-1,2 dihydro 925²

— 1 benzoyl 1,3-dihydro-, 925²

— 1,2 dihydro-2 keto- See Sarcosine

- , 1,2-dihydro 1-methyl-2-(β -phenylhydrazino), 928^a
 —, 1,2-dihydro 2-(β -methyl- β -phenylhydrazino), 928^b
 —, 1,2-dihydro 1-(2-naphthylsulfonyl)-, 928^c
 —, 1,2-dihydro-2-nitro-2-(β -phenylhydrazino)-, 928^d
 —, 1,2-dihydro 1-(phenylsulfonyl)-, 928^e
 —, 1,2-dihydro 2-(β - β -tolylhydrazino), 928^f
 —, 2-(β -dimethylaminophenyl)-1,2-dihydro-, 928^g
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 Benzisothiazole



S-dioxide—see Benzisulfonazole
 3-Benzisothiazole,



—, 3,3-bis(hydroxyphenyl)-1-dioxide—see Phenolsulfonaphthaleins

- 3-Benzisothiazole-4,5,6-triol 3-(amino-methyl), S-dioxide, and isomeric 5,6,7-triol 3978^a
 2-Benzisothiazole-5,6,7-triol 2-(amino-methyl) S-dioxide 3978^b
 3-Benzisothiazole 3-one 4,5,6,7-tetra-bromo 1-dioxide—see anhydride under Benzoic acid 2,3,4,5-tetra-bromo-6-sulfo-

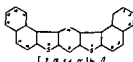
Benzisotriazole See 1,2,3-Benzotriazole
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Benzisoxazolium compounds 1-ethyl 2-phenyl—derives, 1240^a

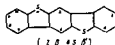
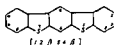
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Benzo[1,2- α :5,4- α']bi- β -naphtho-thiophene



Benzo[1,2- α :5,4- α']bi- β -naphthothiophene 8,16-dione 5167^a

Benzobithionaphthene,

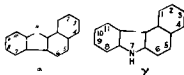


Benzo[1,2- β :4,5- β']bithionaphthene 6,12-dione 3-chloro 1-methyl, 5167^a

Benzo[1,2- β :5,4- β']bithionaphthene 6,12-dione 5167^a
 —, 3-chloro-1-methyl 5167^a
 —, 3,3-dichloro 1,11-dimethyl, 5167^a
 —, 3-ethoxy, 5167^a
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 and picrate 2722^a

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 —, 1-acetyl 5,6-dihydro- and oxime 1523^a
 —, 11-acetyl 5,6,11a-tetrahydro *cis*, and *trans*, 5674^a
 —, 11-benzoyl-5,6,11a-tetrahydro, *cis* and *trans*, 5675
 —, 5,6,11a-tetrahydro *cis*, and *trans*, and picrate 5674^a
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γ-Benzocarbazole, derive P 1538

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 —, 5,9,10,11-tetrahydro-3-methyl and picrate, 1523^a
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 3-γ-Benzocarbazolecarboxylic acid, 4-hydroxy, P 986^a
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 —, 3-(2-furyl)- and copper salt 955^a
 —, 3-(2-furyl) 1,3,3,4-tetrahydro-, 955^a
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derives, P 1286^a

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Benzocycloheptadiene

— 2,3,4,5-tetrahydro- See *Benzosuberone*Benzocycloheptane See *Benzosuberone*

Benzocyclopentindole



[7]—[5]



[5]—[5]

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m-a-Benzodifuran



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Benzo[1,2-γ,4,5-γ']dipyrrole 1,3,5,7-tetrahydro- See *Pyromellitimide*

1,9-Benzodi-1,4-thiopyran



1,9-1,4

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3,3-Benzofluorene,



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3,3-Benzofluorene 11-one 4000^a

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 —, 2,3 dichloro-5,8 diphenyl- 1237^a
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 — 4 nitro 1 phenyl 4883^a
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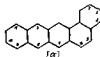
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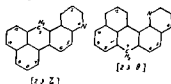
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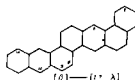
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1 4 5



2 4 1

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- Elementary Practical*, 720²³
- A Manual of Physiol. Chemistry*, 720²⁴
- Chemical*, 730²⁵
- Handbuch der, des Menschen und der Tiere*, 978²⁶
- Lessons et exercices de chimie physiologique*, 1272²⁷
- Kompensum der normalen und pathol. physiol. Chemie*, 1272²⁸
- Recent Advances in*, 1272²⁹
- Lab. Medicine*, 1283³⁰
- Quint. Clinical Chemistry*, 1283³¹
- Clinical Chemistry in Practical Medicine*, 1283³²
- Essentials of Org. and Biol. Chemistry*, 1838³³
- Fundamentals of in Relation to Human Physiology*, 1831³⁴
- Compendio de fisico-química biológica y médica*, 451³⁵
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- Traité de biocollologie*, 3372⁴⁰
- Chemistry for Nurses*, 3553⁴¹
- Lab. Manual of Physiol. Chemistry*, 3878⁴²
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- Textbook of Chemistry Applied to the Field of Nursing*, 5184
- Tecnica macrochimica applicata alle ricerche biologiche e cliniche*, 5442⁴⁵
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
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
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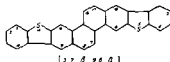
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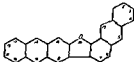
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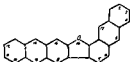
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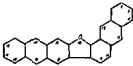
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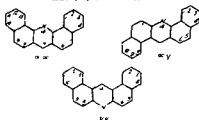
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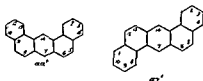
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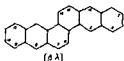


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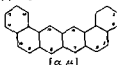
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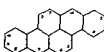


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{γδϵλ}



{αβ}

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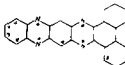


6-{δϵλ}

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{αγ}—{δϵλ}

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—, 2,2-dimethyl-, 704¹

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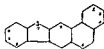
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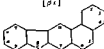
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{βδ}



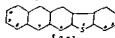
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7-{δϵλ}



7-{δϵλ}



{αβ}

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{αγ}

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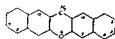
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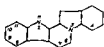
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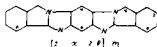
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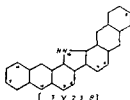
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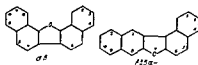


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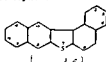
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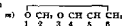
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$$\begin{array}{c} \text{O} \quad \text{CH}_2 \quad \text{O} \quad \text{CH} \quad \text{CH} \\ | \quad | \quad | \quad | \quad | \\ 1 \quad 2 \quad 3 \quad 4 \quad 5 \end{array}$$

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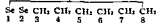
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
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
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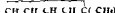
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— **5 (hydroxymethyl)** opening of the furan ring in velocity of 2718²

— **5 methyl** 950²

— **5(7) nitro** 2997²

— **tetrahydro** oxime hydrogenation of 5163²

Fural diacetate preps. of 4880

Furan (*furfuran*)



derivs. mol. refraction of 5674²

nitration of 1825²

orientation of substituents in 4262²

polymerization of 4263²

heat of vaporization of 5603²

nitration of and derivs. 950 0a1²

phys. consts. of 5674²

ring effect on addn. reactions of furanacryl c. acids 2142²

electronic formula for 1245²

ketones contg., 513² 1029²

splitting of by hydrazine hydrate 1826²

velocity of opening of in 5 (hydroxymethyl) 2 furaldehyde, 2718²

spectrochemistry of and its derivs. 1345²

stability of the nucleus, 3994²

thesis. Soelheidsmetingen bij de Opening van den Furanring in het Oxymethyl furfural 3684²

— **acetyl** See *Ketone fural methyl*

— **2 benzamidoacetyl** † oxime 2143²

- 2 benzohydril 101⁹
 — 2 and 3) bromo phys consts of, 1245⁹
 — (bromobutyl)tetrahydro-, organo-metallic derive from, 1245⁹
 — 1 bromomethyltetrahydro-, 4326⁹
 — 2 and 3) chloro phys consts of, 1245⁹
 — 2,5 dihydro - 3 - iodo - 2,5 - dimethyl 2,5 diphenyl 2713⁹
 — 1,6-dinitro 931⁹
 — 2 methyl P 5179⁹
 phys consts of 1245⁹
 — 2 methyl 5 nitro 950⁹
 — 3 methyl 2 nitro 931⁹
 — 3 nitro-, 931⁹ 1825⁹ 4263⁹
 — tetrahydro 2 methoxy 8 (methoxy methyl) 3 methyl (?) 453⁹
 — thio See Thiophene
 — 1 vinyl phys consts of 1245⁹
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 — trimethyl lead salt 2143⁹
 2 Furanacrylic acid ethyl ester phys consts of 1245⁹
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 — α benzamido and methyl ester, reaction with NH_4OH , 2142⁹
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 — and acetate soly of naphthalene is, 3645⁹
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 — them's Snelheidsmetingen bij de Ophef van den Furanring in het 3664⁹
 —, 5(?) nitro and acetate 2997⁹
 — tetrahydro P 1544⁹ P 2156⁹
 — tetrahydro 5 methoxy - 5 - methyl (?) , and acetate 455⁹
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 3 Furancarboxylic acid 2 methyl, and ethyl ester phys consts of 1245⁹
 — tetrahydro 5 keto See Paratonic acid
 — tetrahydro 5 keto - 3,3 dimethyl See Terebic acid
 2,5 Furandione See Maleic anhydride
 3,4,2,5 - Furandione 2,2,5,5 - tetratolyl and derive 2713⁹
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 — Δ 2 naphthyl 935⁹
 — Δ 2 naphthyl nitroso- 935⁹
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 —, 5,10-dihydro, 3648⁹
 —, 5 10, 11 13 tetrahydro, 3648⁹
 —, 5 10, 11, 15 - tetrahydro - 11 - methyl-, 3648⁹
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[2 2 β]

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α Furole See *F* 1 1 1 1 1 1
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Furopyridazine



[3 + d]

Furo[3 4 β]pyridazine 1 4(2,3) dione
 5 7 diphenyl 18 4
Furo[2 3 β]quinoline



[2 3 β]

— 4 methoxy 797^a
 — 4 7 8 trimethoxy 298^a
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[3 4 β]

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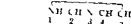
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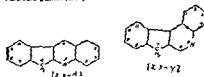
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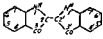
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

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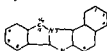
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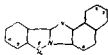
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[2 3 α]—[d]



[2 3 α]—[d]

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8 one 8a 9 10 11 12 13a hexa
hydro " " 01^a
- Isindolo[2 3 α]naphth[2 1 β]imidazol
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—, 4 - bromo - 2 - (4 - bromo - 3,5 - dimethyl - 2 - pyrrolylmethylene) - 3,5 - dimethyl HBr 3010¹

—, 4 - bromo - 2 - (5 - bromo - 3 - ethyl - 4 - methyl - 2 - pyrrolylmethylene) - 3,5 - dimethyl HBr 311¹

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—, 5 - bromo - 2 - (5 - bromo - 4 - methyl - 3 - propyl - 2 - pyrrolylmethylene) - 4 - methyl - 3 - propyl, and HBr 3009¹

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—, 3 - (bromomethyl) - 2 - (5 - (bromo methyl) - 3 - methyl - 4 - propyl - 2 - pyrrolylmethylene) - 3 - methyl - 4 - propyl HBr 3010¹

—, 5 - (bromomethyl) - 2 - (5 - (bromo methyl) - 4 - methyl - 3 - propyl - 2 - pyrrolylmethylene) - 3 - methyl - 4 - propyl HBr 3010¹

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—, 3 - [chloro(3,5 - dimethyl - 2 - pyrrolylmethylene) - 3,5 - dimethyl, and HCl 5700¹

—, 2 - [chloro(3 - ethyl - 4,5 - dimethyl -

- 2 - pyrrol)methylene] - 3 - ethyl 4 5 dimethyl, and HCl 5900¹
- 2 - [chloro(4 - ethyl 3 5 - dimethyl 2 - pyrrol)methylene] - 4 - ethyl 3 5 - dimethyl and HCl 5900¹
- 2 - (3 5 - dibromo - 4 - methyl 2 pyrrol)methylene] - 4 - ethyl - 3 5 di methyl HBr 111¹
- 2 - (4 5 - diethyl - 3 - methyl 2 pyrrol)methylene] - 4 5 - diethyl 3 methyl HBr 3356¹
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- 2 (4 5 - dimethyl - 3 - propyl 2 pyrrol)methylene] - 4 5 - dimethyl 3 propyl salts 3010¹
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- 2 - (3 - carboxy - 5 - hydroxy - 4 - methyl - 2 - pyrrol)methylene] - 3 5 dimethyl- diethyl ester 4010¹
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Isoquinolindinitrile (1 isoquinolindinitrile)

- 1 chloromethyl: 1 2 3 4 tetrahydro 6 7 dimethoxy 1a30¹

Isoquinoline (2 benzene leucoline)



behavior in frog organism 5713¹

derivs 515¹ 1530¹ 5676¹

mercury derivs of 547¹

2 phenylaphthalene 4 dialdehyde from 4000

reaction with Li org c pds 297¹ 1829

ultra violet absorption by 5097¹

- 1 - (β-aminomethyl) 1 2 3 4 - tetrahydro 6 7 dimethoxy and salts 1530¹
- 1 - (2-aminoveratryl) 6 benzoyloxy 3 4 dihydro- and HCl 455¹
- 1 p-anisyl- picate 297¹
- 1 - p - anisyl - 3 4 dihydro 6 7 dimethoxy- 5676¹
- 1 - p - anisyl - 1 2 3 4 tetrahydro 6 7-dimethoxy-2-methyl 5676¹
- 6 - benzoyloxy - 3 4 dihydro 1 - (p-methoxybenzyl)-, and HCl 4552¹

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- , 6 bromo-, 5427¹
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- 1 - (2 4 dihydroxyphenyl) - 1 2 3 4 - tetrahydro 6 7 - dimethoxy - 2-methyl 5676
- 6 7 dimethoxy-1-veratryl See *Papaverine*
- 3 methyl - 6 7 - methylenedioxy - 1-piperonyl- See *Eupaverine*
- 1-phenyl picate 297¹
- 1 2 3 4 - tetrahydro-1 - (p-methoxybenzyl) and HCl 4552¹
- 1 2 3 4 - tetrahydro - 2 - methyl-6 7 methylenedioxy- See *Hydrohydrastinine*
- 2 3 - tetramethylene - 1 2 3 4 - tetrahydro - and picate 5479¹
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- 4 [o and p] nitrophenylazo] 3645¹
- 4-[2 (and 3) nitro-p-tolylazo], 3645¹
- 4 phenylazo 3645¹
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Isoquinoline red effect on glucolysis of tumor cells 1910¹

Isoquinolinium compounds 2 (4 amino-3 chloro 2 quinoxalylmethyl)-chloride 2430¹

- 1 p-anisyl 3 4 dihydro 6 7 dimethoxy 2 methyl- iodide, 5676
- 6 benzoyloxy 3 4 dihydro 2 methyl 1 (1-nitroveratryl)- iodide 4a22¹
- 2-ethyl- chloroplatinate 4006¹
- 1 hydroxy- sulfonic acid cyclic anhydride 4000¹

1 Isoquinolinol See *Isocarbastyl*

4 - Isoquinolinol 1 2 3 4 - tetrahydro - 3-methoxy- and derivs, 515¹, 516¹

6 - Isoquinolinol 1 - (3 - aminoveratryl)- 1 2 3 4 tetrahydro-, 4552¹

— 1 2 3 4 - tetrahydro-1 - (p-methoxybenzyl)- and HCl 4552¹

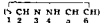
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 books *Versuche für das chem. Praktikum der Mediziner und Zahnmediziner*, 978^o
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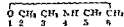
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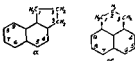
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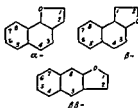


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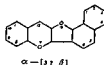


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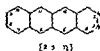
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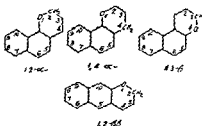
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3-Naphthoquinone-1-chlorolimine-4-
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—, 2-anilino-6-bromo-N-phenyl-, 946¹

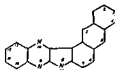
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—, 6-bromo-3-hydroxy-N-phenyl-, 946¹

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Naphtho[2 3-]quinoral[3 3]dinolide,



[2 3 4]—[1 2 3]

948¹

Naphthostyryl (3-amino-1-naphthylacetylene
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α



β

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—, 2-ethyl 1,2-dihydro-1-nitrosolimine-
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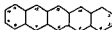
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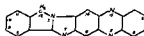


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
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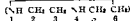
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
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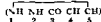
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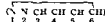
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
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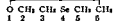
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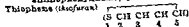
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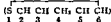


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 47-3³

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Trialeurodes vaporariorum fumigating tomato
 houses with HCN to destroy 9 13

Triamid 3 1

Triazene $\begin{matrix} \text{NH} & \text{N} & \text{NH} \\ | & & | \\ 1 & & 3 \end{matrix}$

deriv 1 43¹

— 3 1 acetanaphthyl 1 4 nitro
 phenyl 1¹ 2¹

— 3 benzyl 3 benzoyloxy 1 4
 nitrophenyl 1¹ 2¹

1 3 bromophenyl 3 3 diphenyl
 1 oxo 1 4

— 1 bromophenyl 3 methyl 3
 phenyl 1 oxo 1 4

3 3 3 duxeto 3 phenyl 1 pyrrolidyl)
 1 3 nitrophenyl 3 phenyl 690

1 3 dimethyl therna decomps of
 1 1

1 3 diphenyl crit ox dat on potential
 1 4

effe 1 fac 1 ion 1 6

rea 1 cement of 4 44

— 3 ethoxy 3 ethyl 1 3 nitrophenyl
 5406⁴

— 3 isopropyl 3 methoxy 1 3
 nitrophenyl 5406⁴

— 3 methoxy 3 methyl 1 3
 nitrophenyl 5406⁴

3 methyl 1 3 diphenyl 1 oxide
 1 4

— 1 phenyl 3 phenylazophenyl
 1 4

— 1 3 3 triphenyl 1 oxide 2126⁴

Triazine $\begin{matrix} \text{N} & \text{CH} & \text{N} & \text{CH} & \text{N} & \text{CH} \\ | & & | & & | & \\ 1 & & 2 & & 3 & & 4 & & 5 & & 6 \end{matrix}$

derivs P 1266 1531¹ P 1538¹ P 184
 P 543⁴

derivs synthesis of 95⁴

mercapto derivs P 3 00⁴

— 3 acetamido 4 amino 6 benzyl
 959

— 3 acetamido-4 amino 6 m and p
 tolyl 959⁴

— 3 4 bis nitrophenyl 6 halogen de
 rivs of P 1266⁴

— 3 4 diamino 6 benzyl and derivs
 959⁴

— 3 4 diamino 6 methyl 959⁴

— 3 4-diamino 6 m and p tolyl and
 salts, 957⁴ 958⁴

— 3 hexahydro 1 3 3 trimethyl reduc
 tion of, 45, 3³

— 3 hexahydro 1 3 3 tripropyl prepn
 and reduction of and derivs 452³

— 3 3 3 triethylhexahydro reduction of
 452³

— 3 4, 6 triphenyl- P 517⁴

— 3 4 6 - tris 1 - amino 3 anthra
 quinonylmercapto- 272⁴

— 3 4 6 tri m and p tolyl P 517⁴

3 - 3 - Triazinemercaptan, 4 - amino - 6 - p
 anilyl-, and derivs, 1531¹

— 4 amino 6 benzyl-, and derivs, 2730⁴

— 4 amino 6-ethyl-, and derivs, 705⁴

— 4 amino 6 methyl-, and derivs, 705⁴

— 4 amino 6 phenyl-, and derivs, 1531¹

— 4 amino-6 propyl-, and derivs, 705⁴

— 4 amino 6 styryl-, and derivs, 2730⁴

— 4 amino 6-o(m and p) tolyl-, and
 derivs 1531¹

3 4 6 - Triazinetriol See Cyanuric acid

Triazole acid See Hydrazoic acid

Triazole amino-, alkali metal derivs of P
 5434¹

— 3 (ethylmercapto) 5 phenyl,
 2119⁴

— 3 (methylmercapto) 5 phenyl, 2119⁴

1 2 4 Triazole (pyro(ab)diazole),
 $\begin{matrix} \text{NH} & \text{CH} & \text{N} & \text{CH} \\ | & & | & \\ 1 & & 2 & & 3 & & 4 & & 5 \end{matrix}$
 derivs 703⁴ P 2442¹, 3650⁴, P 4557¹

1 2 3 Triazole (pyro(ac)diazole),
 $\begin{matrix} \text{NH} & \text{CH} & \text{CH} & \text{N} \\ | & & | & \\ 1 & & 2 & & 3 & & 4 & & 5 \end{matrix}$
 3 (p - dimethylaminophenyl) - 4 -
 methyl 1 (p nitrophenyl)-, and sul
 fate 933¹

— 3 methyl 1 4-diphenyl-, 1627⁴

3 methyl 1 phenyl-4-ethyl-, 1828⁴

1 3 4 Triazole (pyro(bh)diazole),
 $\begin{matrix} \text{NH} & \text{CH} & \text{N} & \text{CH} \\ | & & | & \\ 1 & & 2 & & 3 & & 4 & & 5 \end{matrix}$
 derivs P 4557¹

— 1 p anilyl 3 benzyl 5 phenyl, 295⁴

— 1-p anilyl 3 5-diphenyl, 295⁴

— 3 benzyl 1,5 diphenyl, 295⁴

— 3 benzyl 5 phenyl 1 m tolyl 295⁴

— 1,3 dimethyl 5 phenyl, P 4557¹

— 2 5 diphenyl 1-m (and p) tolyl, 295⁴

— 2 5-endoxy*, 1604¹

— 2 (ethylmercapto) - 1,5 - diphenyl-,
 2119⁴

— 3-(ethylmercapto)-5 phenyl 1 o (and
 p) tolyl-, 2119⁴, 2120⁴

— 3 isopropyl 3 methyl-1-xylyl-, P
 2442¹

— 3 (methylmercapto) 1,5 diphenyl,
 2119⁴

— 3 (methylmercapto) - 5 - phenyl - 1-o
 and p - tolyl 2119⁴, 2120⁴

— 1 p phenyl 1 5-diphenyl, 295⁴

1 3 5 Triazole (pyro(ac)diazole)

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1 3 5 Triazole 3 4-dicarboxylic acid, 1-
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1 3 4 Triazole 3-mercaptan, 5-anilino-1-
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1 3 4 Triazole 3 li-one, 3 allylthiocarbamyl-
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— 5-methyl-3-phenylthiocarbamyl-,
 3651¹

- , 6-methyl-2-thiocarbamyl-, 3651¹
 —, 8-methyl-2-*p*-tolylthiocarbamyl-, 3651¹
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 —, 3-methyl-1-phenyl-, 3651¹
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- 2,1,3-Triazole[4,5-*b*]pyridazine 4,7-dione, 5,6-dihydro-2-phenyl-, 1826⁹
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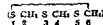
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
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ABBREVIATIONS USED IN CHEMICAL ABSTRACTS

[α] specific rotation ([α] _D ²⁰ , for 20° and sodium light)	concd concentrated
abs absolute	concg concentrating
Ac acetyl (AcH acetaldehyde AcOH, acetic acid)	concn concentration
a c alternating current	cond conductivity
addn addition	const constant
addnl additional	contg containing
alc alcohol, alcoholic	cor corrected
alk alkaline (not alkali)	* c p candle power
alky alkalinity	c p chemically pure
Am amyl	crit critical
amp ampere(s)	cryst crystalline (not crystallize)
amt amount	crystd crystallized
anhyd anhydrous	crystn crystallization
app apparatus	cu m cubic meter
approx approximate, approximately	d density (d ₄ , specific gravity at 13° referred to water at 4°, d ₂₀ ²⁰ , at 20° referred to water at the same temperature)
aq aqueous	d c direct current
assoc associate(s)	decompd decomposed
assocd associated	decompg decomposing
assocn association	decompn decomposition
at atomic	deriv derivative
atm atmosphere(s), atmospheric	det determine
at wt atomic weight	detd determined
A U Ångström unit(s)	detg determining
av average (except as a verb)	detn determination
b (followed by a figure denoting temperature) boils at, boiling at (similarly b ₁₃ at 13 mm pressure)	diam diameter
bacteriol bacteriological	dl dilute
biol biological	dild diluted
b p boiling point	diln dilution
B t u British thermal unit(s)	dissoc dissociate(s)
Bu butyl (normal)	dissocd dissociated
Bz benzoyl (BzH benzaldehyde BzOH, benzoic acid)	dissocn dissociation
cal calorie(s)	distd distilled
calc calculate	dstg distilling
calcd calculated	distn distillation
calcg calculating	elec electric, electrical
calcn calculation	e m f electromotive force
cc cubic centimeter(s)	equil equilibrium
c d current density	equiv equivalent
chem chemical (not chemistry)	est estimate
cm centimeter(s)	estd estimated
coeff coefficient	estg estimating
com commercial	estn estimation
compd compound	Et ethyl (Et ₂ O, ethyl ether)
compn composition	evap evaporate
conc concentrate	evapd evaporated
	evapg evaporating
	evapn evaporation

examd	examined	pathol	pathological
examg	examining	p d	potential difference
exama	examination	Ph	phenyl
expt	experiment	pharmacol	pharmacological
exptl	experimental	phys	physical
ext	extract	physiol	physiological
extd	extracted	pos	positive
extg	extracting	powd	powdered
extn	extraction	p p m	parts per million
f p	freezing point	ppt	precipitate
ft	foot, feet	pptd	precipitated
g	gram(s)	pptg	precipitating
h p	horsepower	pptn	precipitation
hr	hour	Pr	propyl
in	inch(es)	prep	prepare
inorg	inorganic	prepd	prepared
insol	insoluble	prepg	preparing
kg	kilogram(s)	prepn	preparation
kg-cal	kilogram calorie(s)	qual	qualitative
kv	kilovolt(s)	quant	quantitative
kv amp	kilovolt ampere(s)	recrystd	recrystallized
kw	kilowatt(s)	recrystn	recrystallization
l	liter(s)	resp	respectively
lab	laboratory	r p m	revolutions per minute
lb	pound(s)	sapon	saponification
M	molecular (as applied to concn)	sapond	saponified
m	meter(s) also (followed by a figure denoting temperature) melts at	sapong	saponifying
mg at	melts at	sat	saturate
ma	milliampere(s)	satd	saturated
manuf	manufacture	satg	saturating
manufd	manufactured	satn	saturation
math	mathematical	sec	second(s)
max	maximum	sep	separate
Me	methyl (MeOH methanol)	sepd	separated
mech	mechanical	sepg	separating
mfg	manufacturing	sepn	separation
mg	milligram	sol	soluble
min	minimum (also minute(s))	soln	solution
ml	milliliter(s)	soly	solubility
mix	mixture	sp	specific
mol	molecule molecular	sp gr	specific gravity
mol wt	molecular weight	sq cm	square centimeter(s)
m p	melting point	sym	symmetrical
mv	millivolt(s)	temp	temperature
n	index of refraction (n_D^{20} for 20° and sodium light)	U S P	United States Pharmacopeia
N	normal	v	volt(s)
neg	negative	vol	volume (not volatile)
no.	number	w	watt(s)
org	organic	w p c	watts per candle
		wt	weight

III. FORMULA INDEX

KEY

In using this index the following should be borne in mind

1 The Formula Index is supplementary to the Subject Index, in no sense does it replace any part of the latter. Unnamed, incompletely described compounds can often be given specific entry in the Formula Index only

2 Inorganic as well as organic compounds have been entered

3 Entries under their own formulas are made for all strictly inorganic and strictly organic compounds and for the true organic derivatives of organic compounds, both addition compounds and true reaction derivatives (this includes esters, hydrazones, methohalides, oximes, picrates, semicarbazones, etc.) Inorganic salts of organic acids and inorganic addition compounds of organic compounds (hydrohalides, chloroplatinates, perchlorates, sulfates, etc.) are not given separate entries but are indicated in modifying phrases under the formulas of the compounds from which they are derived (under the acid in the case of a salt). Salts of formic, acetic and oxalic acids are exceptions, these are entered as such

4. The arrangement of symbols in formulas is alphabetical except that in carbon compounds C always comes first, followed immediately by H if hydrogen is also present

5 The arrangement of formulas is also alphabetical except that the number of atoms of any specific kind influences the order of compounds e g., all formulas with 1 C come before those with C₂, thus CCl₃O, CCl₄, CHCl₃, CHN, CHNO, CH₂Br, CH₂O, CH₂Cl, CO, C₂Ca, C₂H₂O₂

6 The arrangement of entries under any heading is strictly alphabetical according to the preferred names of the isomers

7. Entries consist of (a) the formula (in bold-face type), (b) the name as it has been entered in the Subject Index (in light-face Roman type; *it should be noted particularly that the part of the entry in this type is the exact equivalent of the formula given*), (c) occasionally a modifying phrase or word such as "Ca salt" or "hydrochloride" (in italics, different type being used to set off that part of a compound being indexed which is not represented in the formula used, see ¶ 3 above), (d) the page reference and (e) the fraction of the page in ninths (indicated by a small superior numeral) in which the compound will be found

8 Cross-references are to the Subject Index

9 Water of hydration is not made a part of the formulas indexed but is usually given in light-face type following the formulas

10 Polymers having different names and recognized as different substances, e g, acetaldehyde and paraldehyde, are all entered under their accepted formulas. But definite compounds for which different polymeric formulas are in use are entered under the simplest formula only with cross references under the polymeric formulas

11 A straight line, thus —, used under some headings to avoid repetition of names, always stands for the name of the 'index compound,' i e, that part of the preceding name (inverted) which comes before the comma

12 'P' before a page number indicates that the abstract is of a patent.

13 The names beryllium (Be), columbium (Cb), hafnium (Hf) and illinium (Il) are given preference over glucinum (Gl), niobium (Nb), celtium (Ct) and florentium (Fr), respectively, for these elements

The Key to a formula index is necessarily lengthy. It would not be correct to conclude from this that this index is difficult to use. Experience is to the contrary.

INTRODUCTION

General purpose and policy The location of chemical compounds in an index by names is at times uncertain because names vary and in the case of complex compounds may be difficult to ascertain. New compounds are constantly being prepared, which, if named at all, may receive more than one name which is justified from one point of view or another and the possibilities of incorrect names are great. Since the kinds and number of component atoms of a chemical compound are unvarying characteristics the supplementary Formula Index to *Chemical Abstracts* is published for the purpose of eliminating this element of uncertainty in the Subject Index. Except that unnamed compounds are no longer entered under the heading 'Compound,' the Subject Index is in no way altered on account of the Formula Index. In the Subject Index related compounds are *grouped* rather effectively and to good use by the present system of indexing on the basis of 'parent compounds' or more accurately 'index compounds', in the Formula Index the certain location of *individual* compounds is the primary consideration. The Subject Index is more convenient to use in some respects and it frequently contains more information in the form of modifying phrases. The repetition of modifying phrases in the Formula Index beyond necessary brief phrases to indicate derivatives has been avoided as unnecessary for the accomplishment of the real purpose of this index, as stated above, and as inconsistent with necessary economy. Isomerism is not indicated in the Formula Index in cases in which the names differ only in position numbers or letters, but it always is in the Subject Index when known. Ready reference to the Subject Index for the purpose of locating information regarding related compounds is made possible by the use in the Formula Index of names following the formulas written exactly as they appear in the former index.

All new compounds and all compounds for which new data are given have been entered. Most of the compounds have been entered under their own formulas. Some departure from a policy of making separate formula entries for derivatives of all kinds is

- BF₃E** See *Potassium fluoroborate*
BF₃ Iron boride, 1718¹, 4456¹
BH Boron hydride, 4181¹, 5091¹
BH₂O₂ See *Boric acid, Saturated*
BH₂NO₂ See *Ammonium perborate*
BH₂N₂O₂ Ammonium borate, 5849¹
BHf See *Hafnium boride*
BNaO₂ See *Sodium metaborate*
BNaO₃ See *Sodium perborate*
BTi See *Titanium boride*
BV See *Vanadium boride*
BZr See *Zirconium boride*
B₂CaO₂Si₂ See *Danburite*
B₂Ca₂O₄ + 7H₂O, 46¹
B₂Fe₂ Iron boride, 20¹
B₂H₂O₂ Metaboric acid, 258¹
B₂H₂ Boron hydride, 885¹, 5361¹
B₂H₂N₂, 5361¹
B₂O₂ See *Boron oxide*
B₂H₂N₂, 885¹
B₂ClH₂, 888¹
B₂Ca₂O₂ + 5H₂O, 46¹, 259¹
B₂H₂ Boron hydride, 888¹
B₂H₂ Boron hydride, 888¹
B₂H₂N₂, 888¹
B₂H₂N₂, 888¹
B₂H₂N₂, 888¹
B₂H₂N₂, 888¹
B₂K₂O₂ + 4H₂O Potassium diborate, 259¹
B₂Na₂O₂ See *Borax, Kernite*
B₂CaNaO₂ + 8H₂O See *Ulexite*
B₂Ba Barium boride, 5812¹
B₂Ca Calcium boride, 5812¹
B₂CaNa₂O₂ + 6H₂O See *Proberite*
B₂Ca₂O₂ + 5H₂O See *Colemanite*
B₂Co Cerium boride, 5812¹
B₂La Lanthanum boride, 5812¹
B₂Na₂O₂ Sodium triborate, 1178¹
B₂Sr Strontium boride, 5812¹
B₂Th Thorium boride, 5812¹
BuCa₂O₂ + 8H₂O, 46¹, 260¹, 654¹
BuH₂ Boron hydride, 4455¹
BuK₂O₂ Potassium pentaborate, 259¹, 654¹, 1178¹
BuLi₂O₂ Lithium pentaborate, 1178¹
BuNa₂O₂ + 10H₂O Sodium pentaborate, 259¹
BuO₂Eu₂ + 8H₂O Rubidium pentaborate, 654¹
BuClNa₂O₂ Sodium chloroborate, 1178¹
BaBr₂ See *Barium bromide*
BaCb₂O₂ Barium columbin oxide, 2381¹
BaCl₂ See *Barium chloride*
BaCl₂H₂N₂, 5823¹
BaCl₂O₂ See *Barium chlorate*
BaCl₂O₂ Barium perchlorate, 2628¹, 5099¹
BaCr₂O₂ See *Barium chromate*
BaCuO₂F₂ Barium cuprophosphate, 465¹
BaF See *Barium fluoride*
BaF₂ See *Barium fluoride*
BaF₂Si See *Barium fluosilicate*
BaFe₂O₂ Barium ferrite, 1178¹, 3889¹
BaHO₂F See *Barium phosphates*
BaH₂O₂ See *Barium hydroxide*
BaH₂Si₂ See *Barium sulfides*
BaH₂O₂F₂ See *Barium phosphates*
BaN₂O₂ See *Barium nitrate*
BaN₂O₂ See *Barium nitrate*
BaNiO₄, 2931¹
BaO See *Barium oxide*
BaO₂Sn Barium stannite, 1178¹
BaO₂S₂ See *Barium thiosulfate*
BaO₂S See *Barite, Barium sulfate*
BaO₂W See *Barium tungstate*
Ba₂S See *Barium sulfides*
Ba₂Si See *Barium sulfides*
Ba₂S₂ See *Barium sulfides*
Ba₂Ge₂H₂O₂W₂ + 14H₂O, 653¹
Ba₂O₂Sn₂, 1178¹
Ba₂O₂Ta₂ Barium tantalum oxide, 2381¹
Ba₂O₂Si₂W₂ + 16H₂O, 469¹
Ba₂N₂ See *Barium nitride*
Ba₂O₂P₂ See *Barium phosphates*
Ba₂Cb₂O₂ Barium columbin oxide, 2381¹
Ba₂O₂Ta₂ Barium tantalum oxide, 2381¹
Ba₂O₂W₂ + 27H₂O Barium tungstate, 5109¹
Ba₂O₂Si₂W₂ + 36H₂O, 469¹
Ba₂Fe₂O₂Si Barium silicoferrite, 5958¹
BaBr₂ See *Beryllium bromide*
BaCl₂ See *Beryllium chloride*
BaCl₂O₂ Beryllium chlorate, 466¹
BaCl₂O₂ Beryllium perchlorate, 466¹
BaF Beryllium fluoride, 5622¹
BaH See *Beryllium hydride*
BaH₂O₂ See *Beryllium hydroxide*
BaH₂N₂N₂, 2628¹
BaN₂O₂ See *Beryllium nitrate*
BaO See *Beryllium oxide*
BaO₂S See *Beryllium sulfate*
BiCl₂ See *Bismuth chloride*
BiH See *Bismuth hydrides*
BiH₂ See *Bismuth hydrides*
BiH₂O₂ See *Bismuth hydroxide*
BiLi See *Bismuth iodide*
BiN₂O₂ See *Bismuth nitrate*
BiNa₂ See *Sodium bismuthides*
BiO See *Bismuth oxides*
BiO₂P See *Bismuth phosphate*
BiSe Bismuth selenide, 2355¹
BiCa₂, 4771¹
BiO₂ See *Bismuth oxides*
BiO₂ See *Bismuth oxides*
BiPb₂Si See *Cosalite*
Bi₂Si See *Bismuthide, Bismuth sulfide*
Bi₂Se₂ Bismuth selenide, 2355¹
BiCa₂, 4771¹
BiNa₂ See *Sodium bismuthides*
Bi₂SiO₂ See *Eulydit*
BiNa₂ See *Sodium bismuthides*
BiCu₂Pb₂Si₂ See *Rhoadsite*
BrCl See *Bromine chloride*
BrCl₂P Phosphorus bromochloride, 5109¹
BrCoH₂N₂O₂Si₂, 1754¹
BrCa See *Cesium bromide*
BrH See *Hydrobromic acid*
BrHO See *Hypobromous acid*
BrHO₂ See *Bromic acid*
BrH₂N Bromamine, 4219¹
BrH₂N See *Ammonium bromide*
BrHg See *Mercury bromide*
BrI See *Iodine bromide*
BrI₂Sn Antimony bromodiodide, 1752¹
BrK See *Potassium bromide*
BrK₂O₂ See *Potassium bromate*
BrLi See *Lithium bromide*
BrLiO₂ Lithium bromate, 3509¹
BrNa See *Sodium bromide*
BrNaO₂ See *Sodium bromate*
BrB See *Rubidium bromide*
BrTi See *Thallium bromide*
BrCa See *Calcium bromide*
BrCd See *Cadmium bromide*
BrCdO₂ Cadmium bromate, 1158¹
Br₂ClCoH₂N₂, 1178¹
BrCo See *Cobalt bromide*
BrFe See *Iron bromide*

- CH₂O₃: Methionic acid *deris*, 4849²
 CH₂O₃: Methanetrissulfonic acid and salts, 915¹
 CH₂O₃: Methanetrissulfonic acid mercapto-, 2691² and K salt 76³
 Methionic acid, thiosulfate salts 3535⁴
 Thiosulfuricmethionic acid and salts, 2691²
 CH₂O₃S: Methanetrissulfonic acid, 1484¹
 CH₃S: Methyl mercaptan, 30¹, 1873⁴
 CH₃Se: Methyl selenomercaptan 2687¹
 CH₃AsO₂: Methanearsonic acid 4456¹ and salts, 4756² salts 487³
 CH₃N: See Methylamine
 CH₃NO: Hydroxylamine β-methyl 4321¹
 CH₃NO₂: See Ammonium formate
 CH₃NO₂: See Ammonium carbonate
 CH₃NO₂S: Methionamic acid *NH*, salt 4849²
 CH₃N₂: See Guanidine
 CH₃N₂O: See Semicarbazide
 CH₃N₂O₂: See Ammonium carbamate
 CH₃N₂O₂: Iperol, 771¹
 CH₃N₂O₂: 3229¹
 CH₃N₂O₂: See Ammonium carbonates
 CH₃CoN₂O₂ S: 1754¹
 CH₃CoN₂O₂S: 46¹
 CH₃F: See Hexafluoride
 Cl₂O: Iodine oxycyanide 655¹ 3616²
 Cl₂O₂Pb: 2343¹
 CKN: See Potassium cyanide
 CKNS: See Potassium thiocyanate
 CK₂O₂: See Potassium carbonate
 CLINS: See Lithium thiocyanate
 CLh₂O: See Lithium carbonate
 CMgN: See Magnesium cyanamide
 CMgO: See Magnesia Magnesium carbonate
 CMnO₂: See Diopside Manganese carbonate Rhodochrosite
 CMo: See Molybdenum carbides
 CMo₂: See Molybdenum carbides
 CNNa: See Sodium cyanide
 CNNa₂S: See Sodium thiocyanate
 CN₂Br: See Strontium cyanamide
 CN₂Zn: See Zinc cyanamide
 CN₂O: Methane tetranitro- 1674¹
 CN₂: Sodium carbide P 4808¹
 CN₂O₂: See Sodium carbonates
 CO: See Carbon monoxide
 CO₂: See Carbonyl sulfide
 CO₂: See Carbon dioxide
 CO₂Pb: See Cerussite Lead carbonate
 CO₂Br: See Strontianite Strontium carbonate
 CO₂Tl: See Thallium carbonate
 CO₂Zn: See Smithsonite Zinc carbonate
 CS: See Carbon sulfides
 CS₂: See Carbon disulfide
 CSi: See Carborundum Silicon carbide
 CTa: See Tantalum carbide
 CTi: See Titanium carbide
 CV: See Vanadium carbide
 CW: See Tungsten carbide
 CZr: See Zirconium carbide
 CAgKN: Potassium argentocyanide 1160¹ 5625¹
 CAgEN₂Se₂: 1754¹
 C₂Be: See Barium carbide
 C₂BeCaO₂: See Barytocalcite
 C₂BeN₂: See Barium cyanide
 C₂BeN₂S₂: See Barium thiocyanate
 C₂Br: Acetylene, dibromo- 73¹, P 711²
 C₂BrCl: Ethylene 1,2-dibromo-1,2-dichloro-, 4218¹
 C₂BrCl₂: Ethane dibromotetrachloro- 1133¹
 C₂BrCu₂O: 2937¹
 C₂Br₂Mg: Ethylenelasmagnesium bromide, 4525¹
 C₂Br₂Cl₂: Ethane tribromotetrachloro-, 1133¹
 C₂Br₂: Ethylene tetrabromo-, P 711²
 C₂Br₂F: Ethane, pentabromodifluoro-, 1133¹
 C₂Br₂: Ethane hexabromo- 1133¹
 C₂Br₂O₂S: Sulfone bis(tribromomethyl), 1487¹
 C₂Br₂K₂N₂S₂Br₂: 469¹
 C₂Ca: See Calcium carbide
 C₂CaN₂: See Calcium cyanide
 C₂CaNa₂O₂: (See also Gaylussite)
 Calcium sodium carbonate 568¹
 C₂CaO₂: See Calcium oxalate (See also)
 C₂CdN₂: See Cadmium cyanide
 C₂CdN₂S₂: See Cadmium thiocyanate
 C₂Ca Cerium carbide 11¹
 C₂Cl: Acetylene dichloro- 69¹ 72¹ P 711², 4217³
 C₂Cl₂Cu₂O: 2937¹
 C₂Cl₂: Ethylene 1,2-dichloro-1,2-duodo-, 69¹ 4218¹
 C₂Cl₂N₂O₂: Dichlorodioxycyanide, 655¹
 Furazan dichloro- 5894¹
 C₂Cl₂O: Oxalyl chloride 3347¹ 4246¹
 C₂Cl₂O₂Pb: 5825¹
 C₂Cl₂N: Acetonitrile trichloro-, 3960¹ hydrobromides 3960¹
 C₂Cl₂: See Ethylene, tetrachloro-
 C₂Cl₂O₂: Dipbogene 1228¹
 C₂Cl₂: Ethane hexachloro- 1133¹ 3273¹, P 3362¹
 C₂CoK₂O₂S: 589¹
 C₂CoN₂: See Cobalt cyanide
 C₂CoN₂Br: See Cobalt thiocyanate
 C₂Co: Cobalt carbide 2932¹
 C₂Cr₂: See Chromium carbides
 C₂F₂: Ethane hexafluoro-, 3252¹
 C₂FeN₂: Iron cyanide, 2069¹
 C₂HBr₂: Ethylene tribromo- 276¹
 C₂HCl₂: See Ethylene trichloro-
 C₂HCl₂O: See Chloral
 C₂HCl₂O₂: See Acetic acid trichloro-
 C₂HCl₂: Ethane pentachloro- 4795¹, 5322¹
 C₂HCl₂O: Ether dichloromethyl trichloromethyl, 911¹
 C₂HF₂O₂: See Acetic acid, trifluoro-
 C₂HIN₂O: Furazan, 3-iodo- 5894¹
 C₂HK: Potassium carbide, 11¹
 C₂HKMgO₂: Magnesium potassium carbonate, 1178¹
 C₂HK₂NaO₂ + 2H₂O 470¹
 C₂HK₂O₂ + 3/2 H₂O 470¹
 C₂HN₂O 2,5-Endoxy 1,3,4 triazole 1504¹
 C₂HN₂: See Sodium acetylides
 C₂H: See Acetylene
 C₂H₂AsCl₂: Arsenic dichloro(β-chlorovinyl), 3310¹
 C₂H₂BrClIN₂O₂: Glyoxime, bromochloro-, 79¹, 80¹
 C₂H₂BrMgN: Cyanomethylmagnesium bromide, 1240¹
 C₂H₂Br: See Ethylene, dibromo-
 C₂H₂Br: Ethane tetrabromo-, 276¹, 1397¹, 3568¹
 C₂H₂ClO₂PS: Liquid, bis 93¹ from HSCH₂CO₂H and PCl₅ 914¹
 C₂H₂Cl₂: See Ethylene, dichloro-
 C₂H₂Cl₂N₂O₂: Allophanil chloride γ-chloro-, 655¹
 Glyoxime dichloro-, 80¹
 C₂H₂Cl₂O: Acetaldehyde, dichloro-, 5412¹, 5428¹
 Acetyl chloride chloro-, P 711², 914¹, P 1843¹ 2365¹

- C₂H₂Cl₂O See *trans* acid dichloro-
 C₂H₂Cl₂O Ethane trichloroform, P 4011
 C₂H₂Cl₂O Acetamide, *n* trichloro-
 3960²
 C₂H₂Cl₂ See *Ethane tetrachloro-*
 C₂H₂Cl₂O Copper formate 720² 506²
 C₂H₂Cl₂O See *Asaric*
 C₂H₂FeO Iron carbonate 417²
 C₂H₂Cl₂O Ethylene d.iodoxy 923²
 C₂H₂Cl₂O Manganese formate 4162
 C₂H₂Cl₂O Acetic acid chloro- 4770
 C₂H₂Cl₂O See *Aras*
 C₂H₂Cl₂O See *Glacial*
 C₂H₂Cl₂O See *Osatic acid*
 C₂H₂Br See *Ethylene bromo-*
 C₂H₂BrO See *Acetyl bromide*
 C₂H₂BrO See *Acetic acid bromo-*
 C₂H₂BrNO Carbonyl bromide *name* 516
 C₂H₂BrO See also *Aras*
 C₂H₂BrO Ethanol trichloro- 2201 1 4894
 C₂H₂BrO Bromal hydrate 1010²
 C₂H₂Cl See *Ethylene, chloro-*
 C₂H₂Cl₂O Glyoxime chloro- 1489²
 C₂H₂Cl₂O (See also *Acetyl chloride*)
 Acetyl chloride chloro- P 3362² P 367²
 C₂H₂Cl₂O Acetic acid chlorothiol 914²
 C₂H₂Cl₂O See *Acetic acid chloro-*
 C₂H₂Cl₂O₂ Methionic acid chloroformyl
 and *A salt* 73
 C₂H₂Cl₂ Ethane trichloro- P 715² P 1964
 P 3362² 1 367² P 4593²
 C₂H₂Cl₂O Ethane, 2 trichloro- 1485
 C₂H₂Cl₂O See *Chloral hydrate*
 C₂H₂Cl₂O See *Acetic acid, tetro-*
 C₂H₂KO₂ See *Potassium acetate*
 C₂H₂N See also *Acetamide*
 Methane isocyanate, 4705
 C₂H₂NO Glyoxime and *name* 1480²
 C₂H₂NO Acetic acid nitro- 4770²
 C₂H₂NO₂ 1,3 4 Oxidazole 2 amino- 498
 C₂H₂NO₂ Endomorphothiolthioazole 513
 51 1 3 4 Thioazoline 2 mercaptan 5-
 amino- 515²
 Ureazole dithio- 515
 C₂H₂NO₂ See *Sodium acetate*
 C₂H₂NO₂ The buty acetate 2085 5930
 C₂H₂ See *Ethylene*
 C₂H₂BrCl Ethane bromochloro- 7211² 397²
 C₂H₂BrCl₂ Ethane sulfonil chloride 2
 bromo- 3404²
 C₂H₂BrNO Acetamide *Y bromo-* 647²
 C₂H₂Br See *Ethane d bromo-*
 C₂H₂Cl₂O See *Calcium carbanate*
 C₂H₂Cl₂O₂ Methionic acid chloroformyl
name *R salt*, 73²
 C₂H₂Cl₂ See *Ethane, dichloro-*
 C₂H₂Cl₂O Ether *n* bis(chloromethyl) P 2
 4522²
 C₂H₂Cl₂O₂ Ethanesulfonil chloride 1-chloro-
 2904²
 C₂H₂Cl₂O₂ Sulfuric acid, bis(chloromethyl)
 ester P 323²
 C₂H₂Fe₂O₂ Compd from Fe CO₂ and Meetyl
 913²
 C₂H₂Cl₂ See *Ethane, dichloro-*
 C₂H₂Cl₂O₂ Sulfamic acid, acetyl, *A salt*, 4520²
 C₂H₂N₂ Ethane diamine, 3324²
 Glycinonitrile, *salts*, 3329²
 C₂H₂Cl₂O₂ Acetousulfuric acid, 2353²
 C₂H₂NO₂ Diethylene *trale*, 2900²
 C₂H₂N₂ Guanidine, *α-cyano-*, 937², 3229²,
 3897²
 C₂H₂O See *Acetaldehyde Ethylene oxide* 1-*oxo-*
 alcohol
 C₂H₂O₂ Acetic acid, thio-, 3080², 4058²
 Acetic acid, thiol-, 914², 2659²
 C₂H₂O₂ (See also *Acetic acid*, and *methyl ester*
 under *Formic acid*)
 Glycolaldehyde, P 3138²
 C₂H₂O₂ Acetic acid, mercapto-, 918², 4041²,
 4254², 5159²
 C₂H₂O₂ See *Glycolic acid Peracetic acid*
 C₂H₂O₂ Acetic acid, sulfino-, and *salts*, 277²
 C₂H₂O₂ 3; Methionic acid, formyl-, 73²
 C₂H₂ Ethyl-, 5880²
 C₂H₂AsO₂ Acetic acid, arseno-, 1798²
 C₂H₂Br See *Ethane bromo-*
 C₂H₂BrMg Ethylmagnesium bromide, 69²,
 501², 1799², 2119², 2424², 3953², 4254²
 C₂H₂Cl See *Ethane, chloro-*
 C₂H₂ClMg Ethane chloromercuri-, 3973²
 C₂H₂ClMg Ethylmagnesium chloride, 3958²
 C₂H₂Cl₂ (See also *Ethane, 2-chloro-*)
 Ether chloromethyl methyl-, 944², 2984²
 C₂H₂Cl₂O₂ Ethyl chlorosulfonate, 1797², 5682²
 C₂H₂Cl₂O₂ Ethanesulfonic acid, chloro-, 2962²,
salts P 4032²
 C₂H₂Cl₂O₂ Ethyl mercapto-, *Cu deriv*-, 2381²
 C₂H₂ See *Ethane, tetro-*
 C₂H₂IMg Ethylmagnesium iodide, 1492², 2658²,
 3958², 3959²
 C₂H₂Si₂ Stibine, ethyldi-, 1752²
 C₂H₂K Potassium ethyl-, 562²
 C₂H₂Li Lithium ethyl-, 562²
 C₂H₂MgK₂ Ammonium magnesium carbonate,
 1178²
 C₂H₂NO (See also *Acetamide*)
 Acetaldehyde *name*, 1506², 5149²
 C₂H₂NO₂ (See also *Ethyl nitrite Glycine*)
 Carbamic acid methyl ester, 1010²
 C₂H₂NO₂ Ethyl nitrate, 2123², 3973²
 C₂H₂NO₂ Sulfamic acid acetyl-, and *A salt*,
 4526²
 C₂H₂NO₂ 3,2N, 2650²
 C₂H₂NS Acetamide, thio- 3962²
 C₂H₂NO₂ Sarcosine, 1 formylthio-, 494²
 C₂H₂O₂ (See also *Ethyl ester*)
 Glyoxime, amino-, 509²
 C₂H₂Na Sodium ethyl-, 562²
 C₂H₂NaO See *Sodium ethoxide*
 C₂H₂Br Rubidium ethyl-, 562²
 C₂H₂ See *Ethane*
 C₂H₂BrP₂S₂, 4194²
 C₂H₂Cl₂ Ethane sulfonate, 1-chloro-,
 2904²
 C₂H₂ClP₂S₂ + H₂O, 4194²
 C₂H₂Br₂KO, 3923²
 C₂H₂Br₂ Methyl selenomercaptan, *Hg deriv*-,
 2657²
 C₂H₂NO Glycinamide, P 4013², 4359²
 C₂H₂NO₂ Hydrosulfamic acid, *α,β*-dimethyl *β*-
 nitro-, 5400²
 C₂H₂NO₂ Ethanol, 2 amino- nitrate salt
 with H₂O, P 2737² P 2740², P 3362²
 C₂H₂NO₂ Pt 2583²
 C₂H₂NO₂ 2009²
 C₂H₂NO₂ Urea guanyl-, 261² chlorate and
 perchlorate, 3964²
 C₂H₂NO₂ Butene, dithio-, 5154², 703²
 C₂H₂O See *Ethyl alcohol Methyl ester*
 C₂H₂O₂ Ethanol 2 mercapto-, 918²
 C₂H₂O₂ See *Glycol*
 C₂H₂O₂ Peroxide hydrosymethyl methyl-, 911²

- C₂H₃O₃S Ethanesulfonic acid, 3393²
 Methanesulfonic acid, Me ester, 1707²
 Methyl sulfate, 1707², 4794²
 C₂H₃O₂ Carbanol, dioxybis-, 3905²
 C₂H₃O₂S See *Methyl sulfate*
 C₂H₃PbSe₂ Methyl selenomercaptan Pb deriv., 2687²
 C₂H₃S₂ Ethyl mercaptan, 30², 75², 445², 56², 4²
 Methyl sulfide, 4794², 5094²
 C₂H₃S₂ Methyl disulfide, 5094²
 C₂H₃Zn Zinc dimethyl, 31²
 C₂H₃AsO₂ Cacodylic acid, Ba salt 1289² salts 487²
 C₂H₃AsO₂ Ethanesulfonic acid, and salts 4756²
 C₂H₃BF₃N Ethylammonium boron trifluoride -0²
 C₂H₃N See *Dimethylamine* *Ethylamine*
 C₂H₃NO₂ See *Ammonium acetate*
 C₂H₃N₃ (See also *Guanidine methyl*)
 Triazene, 1,3-dimethyl 4174²
 C₂H₃N₃, 3220²
 C₂H₃AsClN₃O₃ 3585²
 C₂H₃BrN Ethylammonium bromide 2626²
 C₂H₃BrN₂Zn, 3925²
 C₂H₃ClCuN₂S₂ Copper dithioureia chloride 3557²
 C₂H₃ClN₂Zn 3925²
 C₂H₃CuN₂O₂ Diamminocupric formate 682²
 C₂H₃N Ethylammonium iodide, 2626²
 C₂H₃N₂Zn, 3925²
 C₂H₃NNiO₂ Compd from Ni(CO)₄ MeOH and NO, 913²
 C₂H₃N₂ See *Ethylenediamine*
 C₂H₃N₂O₂ See *Ammonium oxalate*
 C₂H₃N₂O₂ Tetracepe 4 guanyl 1 (nitroso-ammonoguanyl), 5770²
 C₂H₃N₂Ni, 2069²
 C₂H₃ClN₂O₂Pt, 3583²
 C₂H₃Cl₂MoN₂O, 3587²
 C₂H₃FeN₂, 2069²
 C₂H₃N₂Ni, 2069²
 C₂H₃CuN₂O₂ Tetramminocupric formate 682²
 C₂H₃N₂ See *Mercury cyanide*
 C₂H₃N₂O₂ See *Mercury fulminate*
 C₂H₃N₂S₂ See *Mercury thiocyanate*
 C₂H₃N₂O₂ Mercury oxycyanide, 2077²
 C₂Cl₂O₂ Duododioxycyanide, 685²
 Furoxan, duodo-, 5894²
 C₂K₂MgO₂ Magnesium potassium carbonate 3446²
 C₂K₂MnN₂O₂ + H₂O 889²
 C₂K₂MnO₂S₂ + H₂O, 889²
 C₂K₂O₂ See *Potassium oxalate*
 C₂La Lanthanum carbide, 11²
 C₂MgN₂ See *Magnesium cyanide*
 C₂MnO₂ Manganese oxalate, 5362², 5617²
 C₂N₂ See *Cyanogen*
 C₂N₂Ni See *Nickel cyanide*
 C₂N₂O₂ Oxycyanogen, 4194²
 C₂N₂PbS₂ See *Lead thiocyanate*
 C₂N₂S₂ See *Thiocyanogen*
 C₂N₂S₂Zn See *Zinc thiocyanate*
 C₂N₂Zn See *Zinc cyanide*
 C₂Na₂ See *Sodium acetylides*
 C₂Na₂O₂ See *Sodium oxalate*
 C₂Nd Neodymium carbide, 11²
 C₂O₂Pb + 2 H₂O Lead oxalate 5362²
 C₂Pr Praseodymium carbide, 11²
 C₂Sr Strontium carbide, 11²
 C₂Tb Thorium carbide, 11²
 C₂Br₂O 2-Propanone, hexabromo-, 2129²
 C₂Co₂O₂ Cobalt cobaltcarbonate, 4701²
 C₂Cr₂ See *Chromium carbides*
 C₂FeN₂S₂ See *Iron thiocyanate*
 C₂FeO₂ See *Iron carbonyls*
 C₂HBrClO₂ Pyruvic acid, bromodichloro-, and Ag salt 4954²
 C₂HBrO₂ Propionic acid, bromo-, 73², P 711²
 C₂HBr₂ClO₂ Pyruvic acid, dibromochloro and Ag salt 4954²
 C₂HBr₂O₂ Acrylic acid, tribromo-, 73²
 C₂HBr₂O₂ Pyruvic acid, tribromo-, 4954²
 C₂HClO₂ Propionic acid chloro-, 72², P 711²
 C₂HCl₂ Propane heptachloro-, 3893²
 C₂H₂BrClO₂ Pyruvic acid, bromochloro-, 494²
 C₂H₂Br₂O₂ Pyruvic acid, dibromo-, 494²
 C₂H₂Cl₂O₂ Acrylic acid, β-dichloro-, 73²
 Malonyl chloride 2140²
 C₂H₂Cl₂O₂ Pyruvic acid, dichloro-, 494²
 C₂H₂Cl₂NO Acrylamide trichloro-, 3893²
 C₂H₂K₂O₂ + 3/2 H₂O 4701²
 C₂H₂N₂ Malononitrile, 3964²
 C₂H₂AlO₂ Aluminum formate P 1012 2s09²
 C₂H₂ClO₂ Acrylyl chloride P 524² P 3014²
 C₂H₂ClO₂ Pyruvic acid chloro-, 494²
 C₂H₂Cl₂O₂ Carbonic acid methyl trichloromethyl ester, 4223²
 C₂H₂KN₂Ni, 2069²
 C₂H₂NO₂ Acetic acid, cyano-, 7091², 4795²
 C₂H₂N₂O₂ Furan 3 (azetromethyl) (I), 1248²
 C₂H₂ Allene 68², 5626², 5736²
 Propene 68², P 5224², 5626²
 C₂H₂BrClO₂ Propionyl chloride, α-bromo-, 492²
 C₂H₂Br₂O₂ Propionic acid α-β-dibromo-, 4770²
 C₂H₂Cl₂O₂ Propionyl chloride, α-sodo-, 492²
 C₂H₂Cl₂N₂O₂ Propionyl chloride, α-triazo-, 492²
 C₂H₂Cl₂ Propene 1,3-dichloro-, 4537²
 C₂H₂Cl₂Hg₂N₂O₂ Malonamide α-a bis(chloro-mercuri) 1219²
 C₂H₂Cl₂O₂ 2 Propanone 1,3-dichloro-, 952²
 Propionyl chloride α-chloro-, 492²
 C₂H₂Cl₂NO Acetamide acid, α trichloro- Me ester 3961²
 C₂H₂Hg₂N₂O₂ Acetamide, α-cyano-α-(hydroxy-mercuri), 3619²
 C₂H₂N₂ Imidazole 1901², 4929²
 C₂H₂N₂Na₂O₂ 2(3) Imidazolone 4,5-dihydro-4,5-dihydroxy di Na deriv 279²
 C₂H₂N₂O₂ Acetamide cyano-, 1528², 2143², 3653²
 C₂H₂N₂O₂S Hydantoin, 2 thio-, 1508²
 C₂H₂N₂O₂ Hydantoin 279², 5400²
 C₂H₂N₂S 2 Imidazolemercaptan 532²
 C₂H₂O See *Acrolein*
 C₂H₂O₂ See *Pyruvaldehyde*
 C₂H₂O₂ (See also *Pyruvic acid*)
 Glycol carbonate P 1840²
 Pyruvaldehyde, hydroxy-, 3082²
 C₂H₂O₂ See *Malonic acid*
 C₂H₂O₂ Tarttronic acid 496², 3921²
 C₂H₂Ag₂O₂ Silver deriv of compd from oxidation of unsat ketone bms 146², 1499²
 C₂H₂Br See *Propene bromo-*
 C₂H₂BrMg Allylmagnesium bromide, 2684², 2688²
 C₂H₂BrO₂ Propionic acid α-bromo-, 4770², 5075²
 C₂H₂Br₂O 2 Propanol, 1 tribromo-, P 5900²
 C₂H₂Cl See *Propene chloro-*
 C₂H₂ClN₂O₂ Urea chloroacetyl-, 492²
 C₂H₂ClO Epichlorohydrin 9161², 2903²
 2 Propanone, 1-chloro-, 4404², 4525², 5031²
 Propionyl chloride, P 1843², 3955²
 C₂H₂ClO₂ Acetic acid, chloroalcohol, Me ester, 914²
 C₂H₂ClO₂ Formic acid, chloro-, Et ester, 2365², 3620²

- C₃H₇Cl. Propane 1 2 3-trichloro- 4526
 C₃H₇FeN₂O₅ Carbonic acid thiol O-Et ester, 5-dinitroso iron deriv. 1604¹
 C₃H₇I. Propane 3-iodo- 3309¹
 C₃H₇N. Ethane acetylamide 4795¹
 Propionitrile 679 912 5223
 C₃H₇NO. Hydrazyloutrile 1483¹ 1813¹
 Lactonitrile 1484¹
 C₃H₇NO₂. Carbamic acid formyl. Me ester 920¹
 Oxamic acid Me ester 5692¹
 C₃H₇NS. Isothiocarbamic acid ethyl ester 4795
 Thiocarbamic acid ethyl ester 4795¹
 C₃H₇NO₂. Furan 3-aminomethyl (?) and HCl 1248¹
 Glycoceramidine HCl 279
 1 2 4. Oxidazole 9 amino 5 methyl 4981¹
 C₃H₇N₂O₅ 1 3 4 6. Thiodiazin 5 of 2 amine 3002¹
 C₃H₇N₂O₅. Comp. m 111¹ from HO⁺ C (OEt)₂ and HO⁺ OH 3821¹
 C₃H₇N₂O₅. Comp. m 150¹ from HO⁺ C (OEt)₂ 3624¹
 C₃H₇N₂O₅. See 4-vinylglycerol
 C₃H₇. (See also Propane)
 Cyclopropane 3563¹
 C₃H₇BrCl. Propane 1 bromo-3-chloro- 3957¹
 1 2 3 4. Oxidazole 9 amino 5 methyl 4981¹
 C₃H₇Br. Propane 1 bromo-, 1487¹ 2035¹
 3977¹ 4795¹ 5601¹
 C₃H₇ClN₂O₅ 3. Methionic acid chloroformyl semicarbazone K salt 75¹
 C₃H₇Cl. Propane dichloro- 3957¹ 4795¹
 C₃H₇ClO₂ 2. Propanol 1 1 dichloro- 913¹ 1484
 C₃H₇ClO₂. Isothione 5735
 C₃H₇N₂O₅. N-methionamide 1421¹
 C₃H₇N₂O₅. 2(3) Imidazolone 4 5-dihydro-4 5-dihydroxy - 70¹
 C₃H₇N₂O₅. Glyoxime carbamido- 50¹
 C₃H₇O. (See also Acetone Allyl alcohol Propene oxide Propionaldehyde)
 Ether methyl vinyl P 302
 C₃H₇O₂. See Xanthic acid
 C₃H₇O₂. (See also Acetic acid methyl ester Formic acid ethyl ester Propionic acid)
 2. Propanoic acid 1-hydroxy 1441¹
 C₃H₇O₂ 3. 1 3 Dithiole 4 5-dihydro- dioxide 5327¹
 C₃H₇O₂. (See also 4-oxaldehyde La c acid 2 Propane 1 3 dithiole)
 Methyl carbonate 1727¹
 Trimethylamine 3081¹
 C₃H₇O₂ Lactic acid 3 mercapto- 916
 C₃H₇O₂ 3. 1 3 Dithiole 4 5-dihydro- trioxide 5327¹
 C₃H₇S. Tetrahydro 3849¹
 C₃H₇S 2. Propane telluro- 3819
 C₃H₇Br. See Propane bromo-
 C₃H₇BrMg. Propylmagnesium bromide 3958
 C₃H₇CaO₂ Calcium glycerophosphate 207¹
 C₃H₇Cl. See Propane chloro-
 C₃H₇ClMg. Propylmagnesium chloride 3958
 C₃H₇ClO₂ 2. Propanol 1-chloro- 2416 3629¹
 C₃H₇ClO₂. Propanediol chloro- 913 1441¹
 2692¹ 3629¹
 C₃H₇ClO₂ 3. Isopropylchlorosulfonate 1791¹
 C₃H₇ClO₂. Ethanesulfonic acid 1-chloro- Me ester, 2669¹
 C₃H₇CuK. Isopropyl mercaptan Cu deriv 2351¹
 Propyl mercaptan Cu deriv 2351¹
 C₃H₇I. See Propane iodo-
 C₃H₇Img. Propylmagnesium iodide, 3958¹ 3959¹
 C₃H₇INO₂. Urea, β-iodoethyl-, 3616¹
 C₃H₇Li. Lithium isopropyl-, 3328¹
 C₃H₇N. Allylamine, *solid*, 701¹
 C₃H₇N. Acetone oxime, 1509¹
 Formamide, N, 4-dimethyl-, 2972¹
 Formamide acid Et ester, 1827¹ and -HCl 4223¹
 Propionamide, 2972¹ P 4016¹
 C₃H₇NO₂. Carbamic acid, thio-, Et ester, 4225¹
 Carbamic acid, thiono-, Et ester, 3962¹, 5399¹
 C₃H₇NO₂. See Alanine Carbamic acid, ethyl ester Sartosine
 C₃H₇NO₂. See Cysteine
 C₃H₇NO₂. Carbamic acid (hydroxymethyl) Me ester P 3560¹
 Isoserine, 4766¹
 Serine and HCl 1467¹
 C₃H₇NO₂. Semicarbazide, 1 acetylthio-, 4981¹
 C₃H₇N₂O₅. Glycoceramidine 3366¹
 Malonamide, α-amino- 919¹
 C₃H₇N₂O₅. Glycerol mono-4-deriv, 916¹
 C₃H₇. See Propane
 C₃H₇AuNO₂S₂. Ethanesulfonic acid, 1 mercapto-2 (methylthio)amino-, As deriv, di 4-*is* salt, P 969¹
 Yauine, 1 mercapto-1 sulfomethyl-, 3 gold deriv P 1640¹
 C₃H₇Cl₂S₂. Stannane dichloroethylmethyl-, 4863¹
 C₃H₇N₂O₅. Propionic acid α-β-diamino-, Cu salt, 2631¹
 C₃H₇N₂O₅. Urea, α-hydroxydimethyl-, P 524¹, 5399¹
 C₃H₇N₂O₅. Urea, α-guanyl β-methylthio-, P 3041¹
 C₃H₇O. (See also Isopropyl alcohol Propyl alcohol)
 Ether, ethyl methyl 1210¹
 C₃H₇O₂. Ethanol, 2 methoxy-, 1484¹
 Methylal, 5322¹
 Propanediol, 630¹, 1795¹ 3629¹ +
 C₃H₇O₂. (See also Glycerol)
 Peroxide ethyl hydroxyethyl methyl 911¹
 — α-hydroxyethyl methyl 911¹
 C₃H₇O₂S₂. Ethyl methyl sulfite, 1797¹, 5602¹
 Propanesulfonic acid 3593¹ +
 C₃H₇S. Isopropyl mercaptan, 75¹ 503¹
 Propyl mercaptan 307¹
 Sulfide, ethyl methyl 4794¹
 C₃H₇SO₂. 1 Propanesulfonic acid and 4-*is* salt 1756¹
 C₃H₇SO₂. Methylborate 5775¹
 C₃H₇BiS₂. Methyl selenomercaptan Bi deriv, 2687¹
 C₃HF₂KN₂. 2069¹
 C₃H₇HS. Trimethylsulfonium iodide, 2624¹
 C₃H₇Im. (See also Propylamine Trimethylamine)
 Isopropylamine 111Br, 5637¹ *solid*, 701¹
 C₃H₇NO. Trimethylamine 4-oxide, 542¹
 C₃H₇NO₂S₂. Sulfamic acid dimethyl, methyl ester 4482¹
 C₃H₇N₂O. Guanidine α-β-hydroxyethyl-, *is* salt, 3685¹
 C₃H₇N₂Sn. Stannane trimethyl-, Na deriv, 70¹
 C₃H₇Cl₂NO₂. Glycine bezol salt 119¹
 C₃H₇Cl₂NO₂S₂. Copper triethioarsen chloride 2357¹
 C₃H₇Cl₂NO₂S₂. Mercury potassium thiocyanate, 3224¹
 C₃H₇Cl₂NO₂S₂. Cyanuric acid, triiodo-, 685¹
 C₃H₇Cl₂NO₂S₂. Potassium nucleotrioxycyanide, 2918¹

- C₂O₂ Carbon suboxide, 654¹ 5929¹
 C₃ Carbon disulfide, 654¹
 C₄ See *Isosodium carbide*
 C₄AKKN Potassium cyanosulfate, 348
 C₄Br₂ Butadiene, dibromo-, 73¹
 C₄Br₁ 1,3 Butadiene 1,4-dibromo-1,2 3 4
 tetraendo-, 74¹
 C₄Br₁ 1 3 Butadiene 1 2 3 4 tetrabromo-1 4
 duodo-, 74¹
 C₄Br₁ 1 3 Butadiene, hexabromo-, 74¹
 C₄Cl₂ Butadiene, dichloro-, 73¹
 C₄Cl₁ 1,3-Butadiene 1 4-dichloro-1 2 3 4
 tetraendo-, 74¹
 C₄Cl₁O Maleyl chloride dichloro- 4225
 C₄CuFeKN₂ 2069¹
 C₄FeKN₂ Potassium cuprocyanide 5625¹
 C₄FeN₂ 2069¹
 C₄FeO See *Iron carbonyls*
 C₄Fe See *Iron carbides*
 C₄HCLN Lynamidine, 2 4 6 trichloro- 5676¹
 C₄H₂ Biacetylene 71¹
 C₄H₂Br₂Cl₂ 2 Butene 1 4-dibromo-1 2 3 4
 tetrachloro 3956¹
 C₄H₂Br₂ 2 Butene 1 1 2 3 4 4 hexabromo
 5814¹
 C₄H₂Cl₂ 1,3 Butadiene 1 2 3 4 tetrachloro
 3956¹
 C₄H₂Cl₁N₂O₂ 2 Butene 1 2 3 4 tetrachloro 1 4
 dimetro (?) 3956¹
 C₄H₂Cl₂ 2 Butene 1 1 2 3 4 4 hexachloro
 3956¹
 C₄H₂FeO₂ Iron carbonyl hydride 3084¹
 C₄H₂N₂O₂ See *Alloxan*
 C₄H₂N₂O₂ Furan 2,5 dinitro- 951¹
 C₄H₂N₂O₂ Compd m 108¹ from compd
 formed by the reaction of HNO₃ with
 C₄H₂, 1247¹
 3 Furazannitrile 4 nitromethyl (?) 1247¹
 C₄H₂N₂O₂ 3 4 Furazannitrile acid (?)
 1247¹
 C₄H₂O₂ See *Maleic anhydride*
 C₄H₂AgN₂O₂ Urea, α formyl β glyoxyl Ag
 deriv 1830¹
 C₄H₂Al₂BeO₂ + H₂O 5862¹
 C₄H₂Al₂BeO₂ + H₂O 5862¹
 C₄H₂Br₂N₂O₂ Uracil 5-bromo 1830¹
 C₄H₂Br₂O Furan bromo-, 1245¹
 C₄H₂Br₂O Fumaric acid bromo-, 4222¹
 Maleic acid bromo-, 4222¹
 C₄H₂Cl₂O Furan, chloro-, 1245¹
 C₄H₂Cl₂S Ethyl sulfide heptachloro deriv
 2969¹
 C₄H₂N₂O₂ Furan 2 nitro- 951¹, 1825¹ 4263¹
 C₄H₂N₂O₂ Butyronitrile, α β diketo dioxime
 peroxide, 3622¹
 C₄H₂N₂O₂ Uracil, 5-nitro- 1830¹
 C₄H₂AsCl₂ Arsine chlorobis(β chlorovinyl)
 3310¹
 C₄H₂Br₂O₂ Succinic acid α β-dibromo salts
 3549¹
 C₄H₂CaO₂ See *Calcium isoprate*
 C₄H₂CINO₂ Succinamide, N-chloro- 2699¹
 C₄H₂Cl₂O₂ Acetic acid chloroacetyl anhydride
 sulfide, 914¹
 C₄H₂Cl₂ Butane 1,1 2,3 4 4 hexachloro-
 3956¹
 C₄H₂N₂O₂ Succinamide, sodio- 1133¹
 C₄H₂KO₂ Sb See *Turbermelic*
 C₄H₂N₂ Pyrazine 957¹
 Succinonitrile, 4795¹
 C₄H₂N₂O₂ Imidazolealdehyde, 1901¹
 C₄H₂N₂O₂ (See also *Uracil*)
 Butyronitrile, α β diketo-, α-oxime, 3621¹
- C₄H₂N₂O₂ See *Barbituric acid*
 C₄H₂N₂O₂ Diacetic acid 3612¹
 Urea, α formyl β glyoxyl 1830¹
 C₄H₂N₂S Thiocyanic acid, ethylene ester, P
 1258¹
 C₄H₂O₂ See *Furan*
 C₄H₂O₂ Isocrotonic acid γ hydroxy lactone
 4840¹
 C₄H₂O₂ See *Succinic anhydride*
 C₄H₂O₂ (See also *Fumaric acid* *Maleic acid*)
 Oxalic acid, ethylene ester, 920 5144¹
 C₄H₂O₂ Oxalacetic acid 4898¹
 C₄H₂O₂ Maleic acid dihydroxy 5144¹
 C₄H₂O₂ Maleic acid sulfo-, 4222¹
 C₄H₂S See *Thiophene*
 C₄H₂Cl₂ Butane 1 chloro 1815¹
 C₄H₂Cl₂O₂ Sulfoxide β chlorovinyl vinyl 5661¹
 C₄H₂Cl₂O Crotonic acid, β chloro- 4221¹
 Isocrotonic acid β-chloro 4221¹
 C₄H₂Cl₂O₂ Glyoxylic acid chloro Et ester
 3625
 C₄H₂Cl₂O₂ Succinic acid chloro 5072¹
 C₄H₂Cl₂S Sulfide β chlorovinyl vinyl 5661¹
 C₄H₂Cl₂O₂ Acetic acid trichloro Et ester,
 compd with BF₃, 5891
 C₄H₂Cl₂O₂ Carbamic acid ethyl trichloromethyl
 ester 4228¹
 1 3 Dioxolan 2 of 2 (trichloromethyl),
 1454¹
 C₄H₂Cl₂S Sulfide β chlorovinyl α β dichloro
 ethyl, 5661¹
 C₄H₂N₂ (See also *Pyrrrole*)
 β Butenonitrile 2412
 Crotononitrile 2624¹ 5663
 Cyclopropanenitrile, 4234¹
 Isocrotononitrile 2624¹ 5663¹
 Methacrylonitrile P 5177¹
 C₄H₂NO₂ Succinamide 2134¹ 2524¹, 5210¹
 C₄H₂N₂S See allyl ester under *Isothiocyane*
 acid
 C₄H₂N₂NaO₂ Acetamide α cyano-γ methyl
 Na deriv, 3632¹
 C₄H₂N₂O₂ See *Cytosine*
 C₄H₂N₂O₂ Butyronitrile α β-diketo dioxime,
 3621¹
 Formohydroxamamide N acetyl α-cyano-,
 81¹
 Furazan 3 acetyl 4-amino-, 3622¹
 C₄H₂N₂O₂ Compd m 185-90¹ (decomps)
 from compd formed by the reaction of
 HNO₃ with C₄H₂, 1248¹
 C₄H₂ (See also *Butadiene*)
 Butene 911¹, 5626
 C₄H₂Br₂N₂O₂ Glycane N bromoacetyl 2693¹
 C₄H₂Br₂ Butene 2 3-dibromo-, 911¹
 C₄H₂Br₂N₂O₂ Oxamide \ \ -dibromo-Λ Λ'
 dimethyl 687¹
 C₄H₂Br₂ Butane, tetrabromo- 911¹ 1133¹
 C₄H₂Br₂O Ether bis(α β-dibromoethyl) 4846¹
 C₄H₂Br₂O₂ Sulfoxide bis(α β-dibromoethyl)
 5661¹
 C₄H₂Br₂O₂S Sulfone, bis(α β-dibromoethyl),
 5662¹
 C₄H₂CIN Butyronitrile chloro- 5663¹
 C₄H₂Cl₂N₂O₂ Allophanic acid γ,γ-dichloro-,
 Et ester, 685¹
 C₄H₂Cl₂O₂ Sulfoxide, β-chloroethyl chloro
 vinyl, 911¹
 C₄H₂Cl₂O₂ Acetic acid, dichloro-, Et ester,
 2112¹
 p-Dioxane 2 3-dichloro-, 4849¹
 C₄H₂Cl₂O₂S Sulfone, β chloroethyl chlorovinyl,
 911¹

- C₄H₉N₃ See *Triazotrimine*
 C₄H₉N₃O₂ 1,2,3-Butanetrioxime, 1 amino- tri-
 oxime 3672²
 C₄H₉N₃O₄ Allantoin acid, 984³
 C₄H₉N₃NiO₄ Glyoxime amino-, Ni deriv
 509⁴
 C₄H₉N₃O₄ Urea, α-α-oxalylbis-
 dioxide, 263⁵
 C₄H₉O (See also 2-Butanone *Butyraldehyde*
Isobutyraldehyde)
 Butanol 4813¹ 5140
 Ether ethyl vinyl 4627¹
 Ethylene oxide α-α-dimethyl 5143²
 C₄H₉OSe 1,4-Selenoxane 2113¹
 C₄H₉OTe Tellurophene tetrahydro-, 1 oxide
 1021¹
 C₄H₉O₂ (See also Aldol *Butyric acid* *Dioxane*
lithyl acetate *Isobutyric acid*)
 2-Butanone 3-hydroxy 1377¹ 1 1943¹
 5188
 Ethylene oxide, α-methoxy-α-methyl 3963
 Formic acid Et ester 4454³
 Propionic acid Me ester 2640¹
 C₄H₉O₃ Thiophene 2,3-dihydro-3-methyl
 S-dioxide 270¹
 C₄H₉O₃ p-Dithiane 1-dioxide 5662¹
 C₄H₉O₄ (See also *Butyric acid hydroxy*)
 Glycol monoacetate 1484 1 3013¹
 Glycolic acid Et ester P 2153¹
 Hydroxylaldehyde α-methoxy 1223¹
 Isobutyric acid 2971¹
 1-Propanone 1-hydroxy 3-methoxy
 5664¹
 Propionic acid α-methoxy 1814¹
 C₄H₉O₄ 1,3-Dioxolane 4-carbonyl 2-hydroxy
 4523¹
 Fructose 1920¹
 Isobutyric acid β-β-dihydroxy 4819¹
 C₄H₉S Thiophene tetrahydro 1,2,2
 C₄H₉Te 2-Butanone telluro- 3610
 Tellurophene tetrahydro 1091¹
 C₄H₉Br See *Butane bromide*
 C₄H₉BrMg Butylmagnesium bromide 2655
 sec Butylmagnesium bromide 2658
 C₄H₉Cl (See also *Butane chloride*)
 Isopropane 2-chloro 2-methyl 944 0,1
 2894¹ 5322²
 C₄H₉ClMg *tert* Butylmagnesium chloride 764¹
 C₄H₉ClO *tert* Butyl hypochlorite 5174¹
 Ether β-chloroisopropyl methyl 2416
 C₄H₉ClOS 1-Butanesulfinyl chloride 1812
 C₄H₉ClO₂ 1-Propanol 3-chloro 2-methoxy
 1484¹
 C₄H₉ClCu₂N₂O₂ 2606¹
 C₄H₉CuS Butyl mercaptan, Cu deriv 2381¹
 sec Butyl mercaptan Cu deriv 2381
 C₄H₉I (See also *Butane iodide*)
 Propane sodiumethyl 2921¹ 5372¹
 C₄H₉I₂Mg Butylmagnesium iodide 2688¹ 3,59¹
 C₄H₉Li Lithium butyl 1829¹ P 2154¹
 C₄H₉N Butylamine 3962¹
 Pyrrolidine, 951¹, 1828¹ 2997¹
 C₄H₉NO Acetamide, N-γ-dimethyl 2972¹
 2-Butanone, oxime 1508¹ 5140¹
 Butyramide, 2972¹
 Isobutyraldehyde, oxime 5140¹
 C₄H₉NOS *tert* Butyl thiosulfate 3618¹
 Imidoacetic acid, thiol O Et S Me ester
 3962¹
 C₄H₉NO₂ Butyric acid, amino-, 4278¹ 4527¹,
 4648¹
 Carbamic acid methyl, Et ester, 1910¹
 3070¹
 Isobutyramide, α-hydroxy, 5603¹
 Isobutyric acid, α-amino 2117¹, 4527¹
 Cu salt 263¹
 C₄H₉NO₂ Butyric acid, α-amino-β-γ-dihydroxy,
 4278¹
 C₄H₉NO₃ Isobutyronitrile acid α-hydroxy
 monoanhydride with H₂O₂ Na salt
 5603¹
 C₄H₉NO₃Se 1,4-Selenoxane hydroxymethylate
 114
 C₄H₉NS Acetaminobenzoic acid thiol Et ester 3962
 C₄H₉NO Acetone semicarbazone 4263
 C₄H₉N₂O (See also *Creatine*)
 Alacreatine 277¹
 Diglycinamide 4264¹
 C₄H₉ See *Butane* *Propane methyl*
 C₄H₉AuBr Diethylgold bromide 42 0¹
 C₄H₉AuCl Diethylgold chloride 4 70¹
 C₄H₉AuI Diethylgold iodide 1,17¹
 C₄H₉BrN Butylamine 1920¹ *IBr* 3163¹
 C₄H₉BrNOZn + 2110 463¹
 C₄H₉BrSn Stannane bis(monoethyl) 3976
 C₄H₉ClNOZn + 2143 965¹
 C₄H₉ClSn Stannane bis(chloroethyl) 3976,
 4863¹
 C₄H₉CuN₂Na₂O₂ Buret Na-Cu deriv 49¹
 C₄H₉Hg Mercury diethyl 3975¹
 C₄H₉Mg Magnesium diethyl 3979¹
 C₄H₉NO₂ Hydroxylamine α-β-ethyl β
 nitroso 5406¹
 C₄H₉N₃ Urea trimethylthio P 489
 C₄H₉N₃ Compd from 1,1,1,1-tetrachloro-
 4801
 C₄H₉N₃ 1,4,5,6-Tetrathiazine 3,6-
 diethyl 4839 4854
 C₄H₉NO₂P See *Crotophosphoric acid* *Phos-
 phagen*
 C₄H₉NaOP Sodium ethyl phosphate 3618¹
 C₄H₉O See also *Butyl alcohol* *Lithyl ether*
l-butylic acid
 Ether isopropyl methyl 1910¹
 C₄H₉O (See also *Butane alcohol*)
 Ethyl peroxide 41
 Propanol 1-methoxy 2416
 C₄H₉O Diethylene glycol 119¹
 1-oxide ethyl α-hydroxyethyl 3114¹
 Isopropanediol methoxy 916 6,62¹
 C₄H₉O₂ Butanesulfonic acid 1412 5393¹
 1-butanol 2-ethylsulfonyl 1813
 Ethyl sulfate 173 4794¹
 C₄H₉O₃ Lithyl trisulfonate 69¹
 C₄H₉O₃ Lithyl sulfate P 1 61
 C₄H₉O₄ See *Erythrol*
 C₄H₉O₅ See *Lithyl sulfate*
 C₄H₉O₆ Lithyl disulfonate 69¹
 C₄H₉O₆ Ethyl trisulfonate 69¹
 C₄H₉S₂ See also *Lithyl sulfide*
 Butyl mercaptan 30¹ 55 1663¹
 sec Butyl mercaptan 30¹
 tert Butyl mercaptan 3618¹
 Isobutyl mercaptan 30¹ 1663¹
 C₄H₉S₂ Ethyl disulfide 5094¹
 C₄H₉Se₂ Zinc diethyl 314 582¹
 C₄H₉AsO₂ 1-Butaneselenonic acid, 4756¹
 C₄H₉IOS β-Hydroxyethyl dimethylsulfonium
 iodide 1813¹
 C₄H₉N (See also *Butylamine* *Diethylamine*)
 Lithylamine, γ, γ-dimethyl- *chloroacrate*,
 5150¹
 Isobutylamine *HCl* 2626¹
 Propylamine γ-methyl, *HCl*, 4523¹
 C₄H₉NO₂ Ethanol 2,2-imino- 5748¹
 C₄H₉O₂P Butanephosphonic acid, 2414¹

- C₅H₇ClNO₂S** 3 Pyridinesulfonic acid, 6-chloro-, 4265¹
C₅H₇ClNS 2 Pyridinemercaptan, 5-chloro 4267¹
C₅H₇Cl₂N Pyridine, 3-iodo-, dichloride 3344²
C₅H₇Cl₂N Pyrimidine, 2,4-dichloro-4-methyl-, 5400²
C₅H₇CoN₂O₂S, 5637²
C₅H₇FN Pyridine 3-fluoro and HCl 3544²
C₅H₇FeN₂NaO₂, 843¹
C₅H₇FeN₂NaO₂, 863¹
C₅H₇IN Pyridine, 3-iodo-, P 523² 3344²
C₅H₇INO 2 Pyridol, 3-iodo- P 523² P 2157² 2420²
C₅H₇INS 2-Pyridinemercaptan, 5-iodo- 4267²
C₅H₇N₂O Pyridine 2-nitro- 3908¹
C₅H₇N₂O₂S 2 Pyridinemercaptan 5-nitro 4267²
 4 Pyrimidinaldehyde 1,2,3,6-tetrahydro-6-keto-2-thio- 3000²
C₅H₇N₂O Pyridol nitro- P 116² P 5178¹
 4 Pyrimidinaldehyde 1,2,3,6-tetrahydro-2,6-diketo-, 3000²
C₅H₇N₂O₂S Orotic acid, 2-thio- and salts 3316¹
C₅H₇N₂O₂ Orotic acid 3000²
C₅H₇N₂O See *Hypoxanthine*
C₅H₇N₂O See *Xanthine*
C₅H₇N₂O₂ See *Uric acid*
C₅H₇O₂S 1,4-Thiopyrone and dervs 952²
C₅H₇O₂ (See also 2-Furaldehyde)
 1,4-Pyrone 315² 2352²
C₅H₇O₂ Citraconic anhydride 2119²
 Itaconic anhydride 2417²
 Pyromucic acid 951² 1245² triethyl lead salt 2480²
C₅H₇O₂S 1,4-Thiopyrone 5-dioxide 952²
C₅H₇AsClNO₂ 3-Pyridinearsenic acid 5-chloro-6-hydroxy P 4559¹
C₅H₇AsINO 3-Pyridinearsenic acid 2-hydroxy 5-iodo-, P 4559¹
C₅H₇AsN₂O 3-Pyridinearsenic acid 6-hydroxy 5-nitro-, P 524¹
C₅H₇BrN₂O Barbituric acid 5-bromo-5-methyl 5400²
C₅H₇BrN₂O₂S 3-Pyridinesulfonic acid 6-amino-5-bromo 4268¹
C₅H₇ClN Pyridine 2-amino-4-chloro and H₂, 2429²
C₅H₇ClN₂O₂S 3-Pyridinesulfonamide 6-chloro 4268¹
C₅H₇ClN₂O 3-Hydantoinacetyl chloride 4228²
C₅H₇ClNSb, 5109²
C₅H₇IN Pyridine 2-amino-5-iodo P 1263² P 2245² 2429², P 4807²
C₅H₇N See *Pyridine*
C₅H₇NO Pyridol, P 116² 206² 3909¹
 Pyridone 295²
 2-Pyrrolealdehyde 2907²
C₅H₇NO 2-Furaldehyde, oxime, 1506² 5163²
C₅H₇NO 2-Pyrrolecarboxylic acid 3995¹
C₅H₇NO Furan, methylauto- 950², 951²
 3-Isooxalocarboxylic acid 5-methyl 4548²
C₅H₇NO₂ 1-Sulfolpyridinium hydroxide cyclic anhydride, P 983², P 2156², 4482²
C₅H₇NO 2-Furancarbinol 5(?) nitro- 2997²
C₅H₇NS 2-Pyridinemercaptan, 4267²
C₅H₇N₂NaO Barbituric acid, 5-methyl Na dervs 5399²
C₅H₇N₂O₂S 3-Pyridinesulfonic acid, 6-amino-5-nitro-, 4268¹
C₅H₇N, See *Adenine*
C₅H₇N, See *Guanine*
C₅H₇ Cyclopentadiene, 72¹
 2-Penten-4-ine (?) 3399²
C₅H₇AsNO₂ 3-Pyridinearsenic acid, dihydro-keto- 2192² and Na salts, 4265¹
 3-Pyridinearsenic acid, 5-hydroxy-, P 3664², P 4012¹
C₅H₇BrNS Thiazole 5-bromo-2,4-dimethyl-, 4831¹
C₅H₇BrN Pyrimidine 2-amino-5-bromo-4-methyl 1254²
C₅H₇Br₂O₂S 1,4-Thiopyrone, 3,5-dibromotetrahydro-, 5-dioxide, 952²
C₅H₇Br₂NO Monopyridine tetrabromotungstate 2068²
C₅H₇ClNO Acetic acid chloroacyano- Et ester, 2119²
C₅H₇ClNSb 117² 5106¹
C₅H₇NNaO Acetic acid cyano- Et ester, Na derv 82²
C₅H₇NO₂Sb 3-Pyridinecarboxylic acid 6-hydroxy-, P 6178²
C₅H₇N Pyridine amino P 974² 3344² 3998² 3999¹ P 4807²
C₅H₇N₂O 2-Pyrrolealdehyde oxime 3995¹
C₅H₇N₂O Thymine 1830² 2922²
 Uracil 6-methyl 1830² 2922²
C₅H₇N₂O 3-Hydantoin 1-acetyl 2-thio- 1508²
C₅H₇N₂O Barbituric acid 5-methyl 5399²
 Glyoxylic acid cyano Et ester oxime 2383²
C₅H₇N₂O Diacetic acid 5-methyl (?) 5399²
 3-Hydantoinacetic acid 3315² 5395²
 Urea α-acetyl β-glyoxy 1830²
C₅H₇N₂S 2-Pyridinemercaptan 5-amino- 4267²
C₅H₇O Furan 2-methyl 1245² P 5179²
C₅H₇O₂ 2-Furanmethyl mercaptan 4263²
C₅H₇O (See also 2-Furancarbinol)
 α γ-Pentadienoic acid 3972² 4518²
C₅H₇O Citraconic acid 250² 459², 2119² 3315²
 Itaconic acid 241² 2939² 3315² 5664²
 Mesaconic acid 250 2119² 2939² 3315² 3626²
 Propionic acid β-glyoxy 2745² 3389² 4898²
C₅H₇O Glutaric acid keto- 497², 3369² 4552²
C₅H₇AgN₂S 2-Thiazinemercaptan 4-amino-6-ethyl Ag derv 705²
C₅H₇AsN₂O 3-Pyridinearsenic acid, 5-amino-hydroxy P 3361²
C₅H₇BrO 3-Buten-2-ol 4-bromo-2-methyl 73²
C₅H₇BrO α-Pentenoic acid γ-bromo-β-hydroxy 4848²
C₅H₇ClO α-Pentenoic acid γ-chloro β-hydroxy 4848²
C₅H₇Cl₂NO Alaninyl chloride N-chloroacetyl 2741²
C₅H₇Cl₂O Carbonic acid propyl trichloromethyl ester 4228²
 1,3-Dioxolane 2-methoxy-2 (trichloromethyl) 1453²
C₅H₇HgNO Acetic acid cyano(hydroxymercur), Et ester, 3619²
C₅H₇N Acrylonitrile, α-ethyl 2116² 2364²
 Angelonitrile 2116² 2364²
 Tiglonitrile, 2116² 2364²
C₅H₇NO 2-Furamethylamine, 5163²
 Pyromucitonitrile tetrahydro- 5163²
C₅H₇NO Acetic acid cyano, Et ester, 2119², 3964², 4170², 4539², 5063²
C₅H₇NO Pyroglutamic acid, 2203²,

- C₄H₉NO, Glycine N α -carboxyethylidene)
d Na salt 4230²
- C₄H₇N₃ Pyridine 2,6-diamino- P 974²
Pyridine 3-hydrazino- 3344²
Pyrimidine 2-amino-4-methyl 1253²
- C₄H₇NO 1,3,4-Oxadiazole 2-acetamido-5-methyl 498²
- C₄H₇NO₃ 1,3,4,6-Thiodiazin-5-ol 2-amino-Ac deriv 3002²
- C₄H₇NO₃ 3-Hydantoineacetamide 4228²
- C₄H₇ See also Isoprene)
1,4-pentadiene 487² 2654²
- C₄H₄BrClO Isovaleryl chloride β bromo-
8
- C₄H₇BrNO: Alanine N bromoacetyl 2693²
- C₄H₇BrO Valeric acid α - β -dibromo- 148²
- C₄H₇BrO₃ Thiophene 3,4-dibromotetrahydro-
3-methyl 5-dioxide 277²
- C₄H₇BrO Valeric acid α , γ -dibromo- β - δ -
dihydroxy 7) 4845²
- C₄H₇Br Propene 1,3-dibromo-2,2-bis bromo-
methyl 4808²
- C₄H₇BrN₃ Thiazole 4-dimethyl, hydro-
pentabromide 4884²
- C₄H₇CIN Butyronitrile α -chloromethyl 2116²
Butyronitrile β -chloro- α -methyl 2116²
- C₄H₇CINO Alanine N-chloroacetyl 300²
- C₄H₇ClHgNO Malonamide α - α -bis(chloro-
mercuri) N dimethyl 1218²
- C₄H₇Cl₂NO₂ Isera α -acetyl β (β - β -dichloro-
ethyl) 5,11
- C₄H₇Cl₂ Valeric acid α , γ -dichloro β - δ -di-
hydroxy 4544²
- C₄H₇HgNO Acetamide α -cyano-N-ethyl α -
hydroxymercuri 3618²
- C₄H₇I Isoprene 1,3-dioxo-2,2-bis iodo-
methyl 4808²
- C₄H₇N₂ Pyrrole 2 (ammonomethyl) 3993²,
1996²
- C₄H₇NO Oxaluric acid N N-dimethyl
1630²
- C₄H₇NO₂ Glycine N N-carboxylus 3315²
4853 5030²
- C₄H₇NO₂ 4-Iminodiolcarbamate 4-amino-
tetrahydro 2,5-diketone 1-methyl 316²
- C₄H₇NO₂ Isonitrylthiir tetrahydrate 1674²
2981 5031² 7093²
- C₄H₇N₂ 2-Thiazanemercaptan 4-amino-6-
ethyl 70²
- C₄H₇NO Furan 3-acetyl 4-amino- semi-
carbazone 78²
- C₄H₇O Acrolein methyl 7414²
Cyclopentanone 1316²
 α -Pentenolaldehyde 5140²
Semiovaldehyde 2414²
- C₄H₇O₂ Acetic acid allyl ester 4392²
Angelica acid 2342²
Crotonic acid, Me ester 1798²
4-pentenone, 82 183, 3642² 3964²
5411²
 α -Pentenone acid 747² 5140²
Tulic acid 2342²
- C₄H₇O₃ TI of bene, dihydromethyl 5 di-
oxo 2469²
- C₄H₇O₄ See also Linalic acid)
Clyco-cacil allyl ester P 2153²
Lyal 5147²
Xital 5147²
- C₄H₇O₃ 3-Thiophenone 4,3-dihydro 4-methyl
5-dioxide 277²
1,4-Thiopyrone tetrahydro- 5-dioxo 923²
- C₄H₇O₄ (See also Glutaric acid)
Lactic acid, acetate, 492²
Malonic acid, di Me ester, 5663²
—, dimethyl, 5664² salts, 5823²
— ethyl, 496², 3230², 5664² salts, 5823²
- C₄H₇O₃ Acetic acid, (propenylsulfonyl), and
Na salt, 1457²
- C₄H₇O₃ Acetic acid, α α' (methylenedithio)-
base, 4393²
- C₄H₇O₄ Glutaric acid, α hydroxy, 2743², 3369²,
4895²
Lyxonolactone, 279²
Oxalic acid, β -hydroxyethyl Me ester, 8201,
5144²
- C₄H₇Na 2 m Dithanone, 5-methylthio-, 2696²
- C₄H₇Br Pentene, bromo-, P 1037², 1795²
4845²
- C₄H₇BrO Furan, 2 (bromomethyl)tetrahydro-,
4,5,6²
- C₄H₇BrO Isovaleric acid, α -bromo-, 2116²
- C₄H₇BrO₃ 3-Thiophenol, 4-bromotetrahydro-
3-methyl 5-dioxide 277²
- C₄H₇Br₂ Pentane 1,2,3-tribromo-, 4526²
- C₄H₇Cl Pentene chloro-, P 1037², 4845²
- C₄H₇ClNO Carbamic acid β - β -dichloroethyl,
ethyl ester 5213²
- C₄H₇I 2 Pentene 4-iodo- P 1037²
- C₄H₇I₂ Propene 1,3-dioxo-2 (iodomethyl) 2-
methyl 1457²
- C₄H₇N Isovaleronitrile 912², 4795², 5393²
Valeronitrile 912², 5323²
- C₄H₇NO Acrylamide, α -ethyl, 2116², 2342²,
2364²
Angelamide 2116² 2342², 2364²
4-Piperidone HCl 4263²
2-Pyrrolidone, 1-methyl, 102²
Tulamide 2116², 2342², 2364²
- C₄H₇NO₂ (See also Protein)
2-Furaldehyde tetrahydro-, oxime, 5163²
7-Pentenone acid, α -amino-, 1493²
- C₄H₇NO₂ (See also Protein, hydroxy-)
Oxamic acid, isopropyl, and Pr esters, 5693²
- C₄H₇NO₂ (See also Glutaric acid)
Aspartic acid, methyl 4527²
- C₄H₇N₂ Isothiocyanic acid, isobutyl ester,
4795²
- C₄H₇N₃ (See also Histamine)
Pyrazole 4-amino-3,5-dimethyl, 1523²
- C₄H₇N₃O₃ 1,3,4,6-Thiodiazin-5-ol, 2-ethyl
amino- 3002²
- C₄H₇ (See also Butene methyl Pentene)
Cyclopentane 2886² 5006²
- C₄H₇AsBr Arsenodine 1-bromo-, 3009²
- C₄H₇AsBr Arsenodine, 1-bromo-, dibromide,
3009²
- C₄H₇AsN Diethylgold cyanide, 4220²
- C₄H₇BrNO Propionamide, α -bromo-, γ -di-
methyl 492²
- C₄H₇Br₂ Pentane, 1,5-dibromo-, 5601²
- C₄H₇BrO Ether, α - β -dibromopropyl ethyl,
2654²
1-Pentanol 4,5-dibromo- 4526²
- C₄H₇CINO Propionamide α -chloro-, γ -di-
methyl 492²
- C₄H₇Cl₂ Pentane 1,5-dichloro-, 99 3937²
- C₄H₇Cl₂O Methane (β - β -dichloropropoxy)-
methoxy 2979²
- C₄H₇INO Propionamide α -iodo-, γ -di-
methyl 492²
- C₄H₇N₂O Malonamide, N-ethyl 497²
2,4-Pentanedione dioxime 4222²
- C₄H₇N₂O Glycine N-allyl, 1245², 2627²
3017²

- Levulonic acid, α , β -diamino-, di HCl 1247⁺
 C₅H₉N₂O₃ Isoserine, glycol, 5905⁺
 C₅H₉N₂S₂ Compd from Cl₂O and NH₄SH, 5140⁺
 Pentamethylenediamine disulfide P 3137⁺
 C₅H₁₁N₂O Propionamide N, N-dimethyl- α tri-
 azo-, 492⁺
 C₅H₇N₃O₂ Mesaconic acid, dihydrazide, 3626⁺
 C₅H₁₁N₃O₂ Barb turic acid, 5-methyl, hydrazide
 5400⁺
 C₅H₇N₃O₂ Δ^1 -4, 5-Pyrazolinedicarboxylic acid
 dihydrazide, 1826⁺
 C₅H₉O 2 Butanone, 3 methyl 1802⁺
 Butyraldehyde, α -methyl, 71⁺
 Cyclopentanol, 4234⁺
 Ether, ethyl isopropyl, P 302⁺ 4627⁺
 Ethylene oxide, isopropyl, 2600⁺
 Isovaleraldehyde, 3316⁺
 Pentanone, 1802⁺ 2132⁺ 2620⁺
 Δ^1 -1 Pentenol, 4526⁺ 4845⁺
 C₅H₉O₃ Xanthic acid, Et ester 1804⁺
 C₅H₉O₃ (See also *Isosulfuric acid* *Valeric acid*)
 Acetic acid, isopropyl ester, P 1843⁺ P
 4285⁺ Pr ester, 8⁺ compd with BF₃
 5891⁺
 Carbon monoxide di Et acetal 3064⁺
 1, 2 Cyclopentanediol, 1708⁺
 Ethylene oxide (ethoxymethyl) 2692⁺
 2 Furanol tetrahydro-, P 1844⁺, P
 2156⁺
 Propionic acid Et ester 1218⁺, 1802⁺,
 2038⁺ 2640⁺ 5323⁺ compd with BF₃
 5891⁺
 C₅H₉O₃ Acetic acid propylmercapto- 3621⁺
 C₅H₉O₃ Butyric acid γ methoxy, 3935⁺
 Carbamic acid, di Et ester 2038⁺, 3620⁺,
 5323⁺
 5-m Dioxanol 2 methyl 2692⁺
 1 3 Dioxolane-4-carbanol 2 methyl 2692⁺
 Ethanol, 2 methoxy, compd with BF₃
 5891⁺
 Lactic acid Et ester 3676⁺
 Pantoic acid, 2971⁺
 2 Propanone 1 ethoxy-3 hydroxy 5684⁺
 C₅H₉O₃ Acetic acid β methoxyethoxy, 2417⁺
 Acetic acid, mono- 76⁺, 1484⁺ 1910⁺ 3315⁺
 5397⁺
 Erythrose, methyl 1220⁺
 C₅H₉O₃ 1 Butanesulfonic acid, 4 hydroxy 3
 keto-2 methyl, 277⁺
 C₅H₉O₃ (See also *Arabinose* *Xylose*)
 Apiose, 920⁺
 Lyxose, 1220⁺
 Xyloketose, 4304⁺
 C₅H₉O₃ Apionic acid Ca salt, 920⁺
 Arabonic acid, 917⁺ Ca salt, 4850⁺
 Lyxonic acid K salt 2801⁺
 Xyloic acid, 918⁺ Ca salt, 4850⁺
 C₅H₃S₂ Thiopyran, tetrahydro- 1522⁺
 C₅H₉S₂ Carbonic acid, triethio- Bu ester, 4⁺
 salt, 2120⁺
 C₅H₉Te 3-Pentanone, telluro-, 3619⁺
 C₅H₉Br (See also *Pentane bromo*)
 Butane, bromomethyl 3885⁺, 5322⁺ 5603⁺
 C₅H₉Cl Butane, chloromethyl 3885⁺ 5603⁺
 Pentane, 1-chloro-, 2680⁺, 5322⁺, 5603⁺
 C₅H₉ClMg Isoamylmagnesium chloride, 487⁺
 C₅H₉ClMgO γ Ethoxypropylmagnesium chlo-
 ride, 4221⁺
 C₅H₉ClO Ether, β -chlorobutyl methyl, 4525⁺
 Ether, β chloroisopropyl ethyl, 2416⁺
 —, α -chloropropyl ethyl, 2684⁺
 C₅H₉ClOS 1 Butanesulfonyl chloride, 3 methyl
 1812⁺
 C₅H₉ClO₂ Propane chlorodimethoxy 2692⁺
 C₅H₉CS₂ Butyl mercaptan, α -methyl Cu
 deriv., 2381⁺
 C₅H₉I Butane iodomethyl 3685⁺
 C₅H₉IOS₂ 1, 4 Selenoxane methiodide 2114⁺
 C₅H₉IT₂ Tetrahydrophene tetrahydro-, metho-
 dide 1521⁺
 C₅H₉IS₂ Trimethylsulfonium iodide, CHI₃
 compd 282⁺
 C₅H₉N (See also *Piperidine*)
 Pyrrolidine methyl 1941⁺
 C₅H₉NO 2 Iuranmethylaniline tetrahydro
 950⁺ 5163⁺
 Pentanone oxime 1, 006⁺
 Ipropionamide γ γ dimethyl 2972⁺
 2 Ipyridinecarbinol 3995⁺
 Valeramide 2972⁺ 4774⁺
 C₅H₉NOS₂ *terti* Amyl thionitrite 3618⁺
 C₅H₉NO₂ (See also *Amyl nitrite* *Branine*
Valine)
 Butyramide α hydroxy α -methyl 2342⁺
 3970⁺
 Isoamyl nitrite 4846⁺
 Norvaline 526⁺ 1231⁺, 4527⁺
 2 Pentanol nitrite 4846⁺
 C₅H₉NO₂ Butyric acid α amino- γ methyl
 mercapto- 4776⁺ 5396⁺
 C₅H₉NO₂ Valine hydroxy 4766⁺
 C₅H₉NO₂ Butyrimide acid α hydroxy- α
 methyl monomethyl with H₂SO₄,
 Na salt 5605⁺
 C₅H₉N₂O Propionic acid aminomethylamino)
 5903⁺
 C₅H₉ (See also *Butane 2 methyl* *Pentane*)
 Propane 2 2 dimethyl 2987⁺
 C₅H₉BrIS₂ Ethyldimethylsulfonium iodide,
 CH₃Br compd 282⁺
 C₅H₉Cl₂Sn Stannane dichloroethylpropyl,
 4863⁺
 C₅H₉N₂ Pyrrolidine 2 (aminomethyl),
 3995⁺ 3996⁺
 C₅H₉N₂O 1, 1 Dimethyl Δ^1 pyrazolone
 hydrazide 4237⁺
 C₅H₉N₂O Ornithine 4224⁺
 C₅H₉O (See also *Amyl alcohol* *Isoamyl al-*
cohol)
 Ether *terti* butyl methyl, 1215⁺
 2 Pentanol P 1375⁺
 1 Propanol dimethyl 1797⁺ 2606⁺
 C₅H₉O₂ 1 Butanol 4 methoxy 4524⁺
 Ethanol 2 propoxy 2417⁺
 Methane diethoxy 2038⁺ P 2437⁺, 5322⁺
 Pentanediol 1798⁺ 1809⁺
 Propanol ethoxy 2416⁺
 C₅H₉O₂ 1 2 5-Pentanetriol 4526⁺
 1 2 Propanediol 3 ethoxy 684⁺ 916⁺
 Propanol dimethoxy, 916⁺ 2692⁺
 2 Propanone 1 hydroxy di Me acetal
 3963⁺
 C₅H₉O₂ 1 Butanesulfonic acid, 3 methyl
 1812⁺
 Butyl methyl sulfate, 5662⁺
 Ether β ethylsulfonylethyl methyl 1814⁺
 Pentanesulfonic acid 5393⁺
 C₅H₉O₂ See *Pentacetylthiol*
 C₅H₉S₂ Amyl mercaptan, 75⁺
terti Amyl mercaptan 3618⁺
 Butyl mercaptan, α -methyl, 75⁺
 Isoamyl mercaptan 50⁺
 C₅H₉Sn Stannane, trimethylvinyl 70⁺
 C₅H₉AgCINS (β Mercaptoethyl)trimethylam

monium chloride, Ag deriv. AgCl compd. 2117³

C₆H₅CIN₂O β -Formylethylidimethylhydrazonium chloride 4235¹

C₆H₅CLN (β -Chloroethylidimethylhydrazonium chloride) 4171

C₆H₅IO₃ α -Hydroxypropylidimethylsulfonium iodide 1813¹

C₆H₅N₂Amplamine hydrochloride 1135¹ salts: 70

Isoamylamine 3632¹ HCl 2826¹ salts: 4219¹

C₆H₅NO₂Neurine 5664¹

1 Propanol 3-dimethylamino- 1813¹

C₆H₅N₂O₂Formylmethyltrimethylammonium hydrazide 5654

C₆H₅N₂O₂Semichalcide 2 sec butyl 2416¹

C₆H₅BrNO₂Choline bromo- 1804¹

C₆H₅CIN₂S₂Verapogethyltrimethylammonium chloride 211¹

C₆H₅CLN₂O₂ β -Formylethylidimethylhydrazonium chlorophosphate 4235¹

C₆H₅N₂Hydrazine α -ethylpropyl hydrochloride 7416¹

2 4 Pentasulfamate and salts 4 22 4223¹

C₆H₅N₂O₂2 Propyl 1 amino 3 dimethylamino 7 1234¹

C₆H₅N₂O₂ β -Formylethylidimethylhydrazonium hydrazide 423¹

C₆H₅Si₂Whence ethyltrimethyl 4 364¹

C₆H₅Si₂Stannous ethyltrimethyl 1863¹

C₆H₅IO₃See Choline

C₆H₅AgCol.N₂O₂ 5105¹

C₆H₅BrNO₂Hydrazyl ethyl trimethylammonium monosulfate P 873

C₆H₅CoCu₂N₂S₂ 5108¹

C₆H₅CoHg₂N₂S₂ 5108¹

C₆H₅Fe₂N₂Barium ferrocyanide 254¹

C₆H₅N₂O₂Ethylene trithiomethyluracil 5803¹

C₆H₅Br₂Neurine hexachloro- 1135¹ 1501¹

C₆H₅Cl₂Benzene trichlorofluoro 3321¹

C₆H₅Cl₂N₂Benzene 1 3 5-trichloro-2 4 6 trinitro- 7403¹

C₆H₅Cl₂P₂Benzoic tetrachlorophosphoro 3321

C₆H₅Cl₂Quinone tetrachloro- 1817 2070¹

C₆H₅Cl₂Benzene hexachloro- 1135¹ 1501¹ 5659¹

C₆H₅Co₂K₂Potassium cobaltocyanide 291¹

C₆H₅Co₂K₂O₂1015¹ α -ethyl potassium oxalate 3244¹

C₆H₅Co₂N₂Potassium cobaltocyanide 291¹

C₆H₅Co₂N₂Potassium chromocyanide 2069¹ 291¹

C₆H₅Fe₂N₂Copper ferrocyanide 3344¹

C₆H₅Fe₂N₂See Copper ferrocyanide

C₆H₅Fe₂N₂See Potassium ferrocyanide

C₆H₅Fe₂N₂See Sodium ferrocyanide

C₆H₅Fe₂N₂See Zinc ferrocyanide

C₆H₅Fe₂N₂O₂Sodium ferrocyanide 3904¹

C₆H₅Br₂Cl₂Quinone 3-bromo-2 5-dichloro- 4537¹

C₆H₅Br₂Cl₂1 benol 2 5-d-bromo-3 4 6-tri- chloro- 4537¹

C₆H₅Br₂Cl₂1 benol 2 4 5-trichloro-3 6-di- chloro- 4637¹

C₆H₅Br₂Cl₂Phenol 2 2 4 4-tetrabromo-5- chloro- 4537¹

C₆H₅Br₂Cl₂Phenol, pentabromo- 2129¹

C₆H₅Cl₂Phenol, pentachloro- 2706¹ P 4559¹

C₆H₅Cl₂O₂1 3 5-Oxadithiane, 2 4-bis(chloromethyl)- 6 trichloromethyl-, 2,5-diole, 3619¹

C₆H₅NO₂Quinonotetrazide, 3,5,6-trinitro-, 2129¹

C₆H₅Br₂Cl₂Nicotinonitrile, 3-bromo-6-chloro- 4268¹

C₆H₅Br₂Cl₂Phenol, 2 bromo-3,4,6-trichloro- 4537¹

C₆H₅Br₂NO₂Quinonotetrazide 3-bromo-2 nitro-, 2129¹

C₆H₅Br₂Cl₂Phenol 2,4-dibromo-3,6-dichloro- 4537¹

C₆H₅Br₂O₂Quinone 2,5-dibromo-, 366¹

C₆H₅Br₂Benzene, 1 2 3,5-tetrabromo-, 2698¹

C₆H₅Br₂NO₂¹ Cyclohexadecene, 2 amino-3 4 4 5 6-pentabromo-(?), 2129¹

C₆H₅CIN₂Nicotinonitrile, 6-chloro-5-nitro-, 4268¹

C₆H₅CIN₂O₂Picryl chloride 2699¹

C₆H₅CLN₂Nicotinonitrile dichloro-, 4268¹

C₆H₅CLN₂O₂Benzoic dichlorodinitro-, 2981¹

C₆H₅Cl₂O₂Quinone dichloro- 4558¹

C₆H₅Cl₂Phenol 2 2 4-trichloro-6-nitro-, 1504

C₆H₅Cl₂Phenol 3 4 6-trichloro-2 nitro-, 4537¹

C₆H₅Cl₂Benzoic tetrachloro-, 2698¹ 4309¹

C₆H₅Cl₂O₂Phenol tetrachloro-, 2706¹ P 4559¹

C₆H₅Cl₂O₂Benzenesulfonyl chloride, 2,3,4-trichloro 3619¹

C₆H₅Cl₂O₂1 3,5-Oxadithiane, 2 5-bis(chloromethyl)- 4 dichloromethyl-, 3 5-diole 3619¹

C₆H₅KN₂O₂Potassium picrate 2626¹

C₆H₅Li₂N₂O₂Lithium picrate 626¹

C₆H₅N₂Na₂O₂Picric acid, 7.8 salt, 2676¹ 3539¹

C₆H₅N₂O₂Benzoic, 1 2 3 5-tetrabromo-, 2781¹

C₆H₅Ag₂Cl₂Phenol 5-chloro-4 nitro-, Ag deriv. 4639¹

C₆H₅Ag₂NO₂Silver picrate 2626¹

C₆H₅Br₂Cl₂Benzoic bromodichloro-, 923¹ 4560¹

C₆H₅Br₂Cl₂O₂Hydroquinone 3 bromo-2 5-di-chloro- 4537¹

C₆H₅Br₂Cl₂Phenol 4 bromo-2 6-diole-, 3978¹

C₆H₅Br₂Cl₂Benzoic 1 bromo-2 4-dinitro-, 3594¹

C₆H₅Br₂NO₂Resorcinol bromodinitro-, 2129¹ 2129¹

C₆H₅Br₂P₂Benzoic dibromodichloro-, 4233¹

C₆H₅Br₂Cl₂Phenol 2 6-dibromo-4 fluoro- 154¹

C₆H₅Br₂Cl₂Phenol 2,4-dibromo-6-nitro-, 3978¹

C₆H₅Br₂NO₂Phenol 2 4-dibromo-6-nitro-, 283¹

C₆H₅Br₂NO₂Compd from aminonitrobenzene tetrol and Br 2129

C₆H₅Br₂NO₂Phenol, 4-amino-2 6-dibromo-3,5-dinitro- 2129¹

C₆H₅Br₂See Benzoic tribromo-

C₆H₅Br₂Cl₂Phenol tribromo- 1637¹ 2698¹

C₆H₅Br₂O₂1 2 Cyclopentadiene, 3,5,5-tribromo-8 methyl- 3149¹

C₆H₅Br₂N₂Amide, 2 2 4 4-tetrabromo-, 3633¹

C₆H₅Br₂NO₂Carboxylic carbonates about 200¹, from Br and 2706¹ acetyl-5-hydroxyan- thranic acid 2706¹

C₆H₅Br₂NO₂Phenol, 4-amino-2 3 5 6-tetrabromo-, 2706¹

C₆H₅Br₂NO₂Phenol, 4-amino-2 3 5 6-tetrabromo-(?), 2706¹

C₆H₅Br₂NO₂Benzoic 1-chloro-4 nitro-2 nitro-, 624

C₆H₅Br₂Cl₂Phenol, chlorodinitro-, 1504¹ 3978¹

- C₆H₄ClN₂ Nicotinonitrile, 6-chloro- 4268¹
 C₆H₄ClN₂O₂ Benzene, chlorodinitro-, 687¹
 2214¹, 2698¹, 3664¹, 4533¹
 C₆H₄ClN₂O₂S Phenolsulfonic acid chlorodinitro-, K salt, 93¹
 C₆H₄ClN₂O Picolylazide 4-chloro- 2429¹
 C₆H₄Cl₂F Benzene, dichlorodifluoro-, 923¹, 4860¹
 C₆H₄Cl₂FO Phenol, 2,6-dichloro-4-fluoro 114¹
 C₆H₄Cl₂ Benzene, dichloromodo- 923¹, 4860¹
 C₆H₄Cl₂NO Phenol, 2,4-dichloro-6-nitro-, 1504¹
 C₆H₄Cl₂NO Benzene dichloronitroso- 973¹
 4560¹
 Picolyl chloride 4-chloro- 2429¹
 C₆H₄Cl₂NO₂ Benzene, dichloronitro- 923¹
 2698¹, 4860¹, 5033¹
 Nicotinic acid 5,6-dichloro- 4268¹
 C₆H₄Cl₂ See Benzene trichloro-
 C₆H₄Cl₂O See Phenol trichloro-
 C₆H₄Cl₂S Phenylmercaptan 2,3,4-trichloro
 P 5040¹
 C₆H₄Cl₂OS₂ 1,3,5-Oxadithiane 2,4,6-tris(tri-
 chloromethyl) 3618¹
 C₆H₄CoN₂ Hexacyanocobaltic acid 4483¹
 C₆H₄Fl₂O Phenol 4-fluoro-2,6-diortho- 114¹
 C₆H₄IN₂O Nicotinonitrile 2-hydroxy 5-iodo-
 4268¹
 C₆H₄IN₂O Picolylazide 4-iodo- 2429¹
 C₆H₄I₂ See Benzene triiodo-
 C₆H₄IN₂O₂ See Benzene trinitro-
 C₆H₄IN₂O₂ See Picric acid
 C₆H₄IN₂O₂ Resorcinol trinitro Pb deriv
 4127¹
 Styphnic acid 2893¹
 C₆H₄N₂O₂ Phloroglucinol trinitro- 2893¹
 C₆H₄N₂O₂ Aniline N,2,4,6-tetratrimetro- 282¹
 C₆H₄AsBrCl₂ Arsenic (m bromophenyl)di-
 chloro- 109¹
 C₆H₄AsClO₂S Benzenesulfonyl chloride o-ar-
 sinoso- 93¹
 C₆H₄AsClFO₂S Benzenesulfonyl fluoride m
 dichloroaryl 284¹
 C₆H₄AsClO₂S Benzenesulfonyl chloride m
 dichloroaryl 284¹
 C₆H₄BB₂F₂N₂ p Bromobenzenediazonium boro-
 fluoride 4253¹
 C₆H₄BB₂BrO Benzene, 1-boryl-4-bromo- 927¹
 C₆H₄BNO₂ Benzene borylnitro 1227¹
 C₆H₄BrCl Benzene 1-bromo-4-chloro- 4861¹
 C₆H₄BrClHg Benzene 1-bromo-4-(chloromer-
 cur) 928¹
 C₆H₄BrClO Phenol 5-bromo-2-chloro- 924¹
 C₆H₄BrCl₂Sn Stannane (p bromophenyl)tri-
 chloro- 2703¹
 C₆H₄BrF Benzene 1-bromo-4-fluoro-, 4253¹
 C₆H₄BrFO Phenol 4-bromo-2-fluoro- 3978¹
 C₆H₄BrNO Benzene 1-bromo-4-nitroso-, 3321¹
 C₆H₄BrNO₂ See Benzene bromonitro-
 C₆H₄BrNO₂S Nicotinic acid 5-bromo-6-mer-
 capto- 4268¹
 C₆H₄BrN₂ 1,2,3-Benzotriazole 5-bromo 4265¹
 C₆H₄BrN₂O₂ Aniline 4-bromo-2,6-dinitro- 283¹
 C₆H₄BrN₂O₂ Phenol 3-aminobromodinitro-
 2128¹, 2129¹
 C₆H₄Br₂ See Benzene, dibromo-
 C₆H₄Br₂N₂O₂ Aniline 2,6-dibromo-4-nitro,
 4273¹
 C₆H₄Br₂N₂O₂ Phenol, 3-aminodibromonitro-
 2128¹, 2129¹
 C₆H₄Br₂Sn Stannane, tribromo(p-iodophenyl)
 2703¹
 C₆H₄Br₂N Aniline 2,4,6-tribromo- P 973¹, P
 1384¹, 2698¹
 C₆H₄ClF Benzene, 1-chloro-4-fluoro-, 4861¹
 C₆H₄ClFO₂S Phenol, o(m and p)-chloro-, fluoro-
 sulfonate, 929¹
 Phenolsulfonyl fluoride chloro- 284¹
 C₆H₄ClFI Benzene 1-chloro-4-iodo-, difluoro
 3643¹
 C₆H₄ClHO Phenol chlorosodo- 924¹, 1504¹
 C₆H₄ClNO₂ (See also Benzene chloronitro-)
 Phenol 3-chloro-4-nitroso- 4539¹, 5669¹
 Quinone 2-chloro-1-oxime 4539¹, 5669¹
 C₆H₄ClNO₂S Benzenesulfonyl chloride p-nitro-
 1812¹
 Nicotinic acid 5-chloro-6-mercapto- 4267¹
 C₆H₄ClNO₂ Phenol chloronitro 93¹, 114¹
 2706¹, 5033¹
 C₆H₄ClNO₂S Benzenesulfonyl chloride nitro-
 2702¹
 C₆H₄ClNO₂S 1 Phenol 4-sulfonic acid chloro-2
 nitro-, A salt 93¹
 C₆H₄ClN₂O₂ Nitrobenzenediazonium chloride
 453¹, 4797¹, 5406¹
 C₆H₄Cl₂ See Benzene dichloro-
 C₆H₄Cl₂Hg Benzene 1-chloro-2-(chloromercur)
 928¹
 C₆H₄Cl₂N₂ Chlorobenzenediazonium chloride
 4797¹
 C₆H₄Cl₂N₂O₂ Aniline 2,6-dichloro-4-nitro
 4273¹
 C₆H₄Cl₂O Phenol dichloro- 923¹, 2706¹
 4537¹, 4860¹
 C₆H₄Cl₂O₂S Benzenesulfonyl chloride dichloro-
 923¹, 4860¹
 C₆H₄Cl₂O₂S Benzenesulfonyl chloride dichlorodi-
 hydroxy, Ba salt 691¹, 692¹
 C₆H₄Cl₂O₂S, 1 Phenol 2,4-disulfonyl chloride
 P 1262¹
 C₆H₄Cl₂O₂S, m Benzenedisulfonyl chloride 2,4-
 6-trihydroxy P 1262¹
 C₆H₄Cl₂S Phenyl mercaptan 2,6-dichloro
 4860¹
 C₆H₄Cl₂Sn Stannane trichloro(p-iodophenyl)
 2703¹
 C₆H₄Cl₂N Aniline 2,4,6-trichloro- 2698¹
 2970¹
 C₆H₄Cl₂NO₂S Benzenesulfonyl chloride 2-amino
 3,5,6-trichloro- P 4716¹
 C₆H₄Cl₂N₂ Hydraxine 2,3,4,6-tetrachloro
 phenyl 5067¹
 C₆H₄Cl₂Sn Stannane trichloro(p-chlorophenyl)
 2703¹
 C₆H₄Cl₂Sn Stannane trichloro(p-iodophenyl),
 dichloride 2703¹
 C₆H₄FNO₂ Benzene fluoronitro- 2611¹
 C₆H₄FNO₂S Phenol p-nitro fluoro-sulfonate,
 929¹
 C₆H₄FINO₂ Benzene iodonitro difluoride
 3643¹
 C₆H₄FeN₂ See Ferrocyanic acid
 C₆H₄INO₂S Nicotinic acid o-sodo-6-mercapto-
 4268¹
 C₆H₄I₂ See Benzene diiodo-
 C₆H₄I₂O₂ Benzene, o-diiodoxy 927¹
 C₆H₄N₂ Nicotinonitrile 3314¹
 C₆H₄N₂O Nicotinonitrile, 6-hydroxy 4268¹
 C₆H₄N₂O₂ Nicotinonitrile, 2,4,6-trihydroxy P
 2441¹
 C₆H₄N₂O₂S p-Sulfolobenzenediazonium hydroxide,
 cyclic anhydride, 4707¹
 C₆H₄N₂O₂ See Benzene dinitro-
 C₆H₄N₂O₂ (See also Phenol, dinitro-)
 Nicotinic acid, 2-hydroxy 5-nitro 3651¹
 C₆H₄N₂O₂S Benzenesulfonyl chloride, 2,4-dinitro
 2702¹
 C₆H₄N₂O₂ Benzenesulfonyl chloride 6-nitro- 4266¹

[illegible]

C6H5FeI, 1753¹
C6H5Fe See *Benzene, iso-*
C6H5MgI Phenylmagnesium iodide, 3749¹
C6H5NO Picolinamide 4-iodo-, 2429¹
C6H5N See *Nicotinamide*, 5-iodo-6-mercapto-
 -thio-, 4267¹
C6H5O Phenol, 1500¹, 1504¹
C6H5O5S Benzenesulfonic acid, *p*-iodo-,
 2703¹
C6H5O3S Benzenesulfonic acid, *p*-iodo-,
 923¹
C6H5NO2 2(1) Pyridone, 3 5-diodo-1 methyl,
 2725¹
C6H5I Iodobenzene, 1829¹, *P* 2154¹
C6H5Cl (See also *Benzene, nitro-*)
 Quinonimine 602¹
C6H5NO2 (See also *Benzene, nitro-*, *nicotinic*
 acid)
 Phenol *p*-nitroso-, 1505¹, 2725¹, 2984¹,
 4241¹, 5806¹
C6H5NO2 2 *Nicotinic acid*, 6-mercapto-, and
 4-iodo 4267¹
C6H5NO (See also *Phenol, nitro-*)
 Nicotinic acid 6-hydroxy-, 4265¹
C6H5NO Hydroquinone nitro-, 503¹
C6H5NO Pyromucic acid, 5-methyl 4 nitro-,
 912¹
C6H5N Benzenesulfonate, 1806¹, 1807¹
C6H5N Benzenesulfonate hydroxide, *nitro-*,
 5 *der* 4707¹
C6H5N *p*-nitrobenzenesulfonamide hydroxide, 92¹
C6H5NO Another nitro- 5606¹
 Nicotinic acid 2 amino-5-nitro-, 3651¹
C6H5NO Picramic acid, 926¹
C6H5NO Isosulfazine 9 methyl 6 nitro-,
 3664¹
C6H5NaO See *Sodium phenoxide*
C6H5NaO See *Sodium citrate*
C6H5 (See also *Benzene*)
 1,5-Hexadiene-3-one, *P* 4892¹, *P* 5048¹
C6H5NaNO2, 3652¹
C6H5NaO2 Benzenesulfonic acid, *m*-bromo-,
 4543¹
C6H5NaO2 Benzenesulfonic acid, *o*-chloro-,
 4543¹
C6H5NaO2S Benzenesulfonic acid, *o*-(chloro-
 sulfonyl), 93¹
C6H5NaO2S Arsenic tri(β-chlorovinyl), 3310¹
C6H5NaO2S Benzenesulfonic acid, *m*-(fluoro-
 sulfonyl) 2529¹
C6H5NaO2S Benzenesulfonic acid, *p*-nitro-,
 3664¹
C6H5NaO2S Benzenesulfonic acid, hydroxynitro-,
 263¹
C6H5NaO2S Aracetic acid, 3 5-dinitro-, 263¹
C6H5NaO2S Benic acid, (p-bromophenyl),
 927¹
C6H5NaO2S Boric acid, (o-chlorophenyl), 927¹
C6H5NaO2S Boric acid (nitrophenyl), 93¹,
 1227¹
C6H5NaO2S Chloroant, bromochloro-, *di* Ac
 4277¹, 80¹
C6H5NaO2S Bromo- 1505¹, 4454¹, 22
 3 *iodine* bromo- hydrobromic dibromide,
 3345¹
C6H5NaO2S Phenol 2 amino-4 bromo-, 283¹
 2 1 *pyridine*, 3 bromo 1 - methyl,
 2725¹
C6H5NaO2S Cyclohexane benzenoxide, 1133¹
C6H5NaO2S See *Acetic chloride*
C6H5NaO2S I benzo, 2 amino-4-chloro-, 5023¹
 2 1 1 *pyridine*, 3 chloro - 1 - methyl,
 2725¹

- C₆H₅ClNO₂** Acrylic acid, β chloro α -cyano-Et ester, 2119^a.
C₆H₅ClNO₂S Phenolsulfonic acid, amonochloro-, 5034^a.
C₆H₅ClNS Phenyl mercaptan, 2 amino 4 chloro- 931^a.
C₆H₅ClN₂O Picolamic acid, 4-chloro- hydrazide 2429^a.
C₆H₅Cl₂O₂ Compd m 81^a, from the dichloride of dichloromaleic acid and MeMgI 4225^a.
C₆H₅Cl₃ Cyclohexane, hexachloro-, 1133^a, 1493^a 4150^a.
C₆H₅HN Amine, *p*-soda- 1502^a, 2125^a.
C₆H₅INO Pyridine, 5-sodo-2 methoxy and HCl 953^a.
 2(1) Pyridone 5-sodo-1 methyl P 1036^a P 2523^a and HCl 953^a.
C₆H₅INO Picolamic acid 4 sodo- hydrazide 2429^a.
C₆H₅KNO₂S Sulfamic acid (phenylsulfon) K deriv., K salt, 4526^a.
C₆H₅LiN 2 Picoline Li deriv 1529^a.
C₆H₅N₂ Quinoxaline, 502^a.
C₆H₅N₂O Benzenediazo hydroxide λ deriv 470^a.
 Nicotinamide 3664^a.
 Picolinamide, 3664^a.
C₆H₅N₂O₂ (See also *Andine nitro* -)
 Glutaramide, α cyano-, 3553^a.
 Imidazoleacrylic acid 1901^a.
 Nicotinic acid amino-, 4268^a and HCl 3651^a.
C₆H₅N₂O₂ Pyridine, 2 methoxy 5-nitro- 953^a.
 2(1) - Pyridone, 1 methyl 5 nitro- 953^a.
C₆H₅N₂O₂S Orotic acid, O methyl 2 thio 3317^a.
C₆H₅N₂O₂ Hydroquinone 2 amino 5 nitro- 2129^a.
C₆H₅N₂O₂S Benzenediazonium acid sulfate 1226^a.
C₆H₅N₂O₂S Sulfamic acid, 2 nitro- 2703^a.
C₆H₅N₂S Nicotinamide thio- 3664^a.
 Picolinamide, thio-, 3664^a.
C₆H₅N₂S₂ Nicotinamide, 6-mercaptothio-, 4267^a.
C₆H₅N₂O₂ Heteroxanthine 1864^a.
 Xanthine, methyl, 1884^a.
C₆H₅N₂O₂ Uric acid methyl 2120^a 4297^a.
C₆H₅N₂O₂ Hydrazine (2 4-dinitrophenyl), 3319^a, 5076^a.
m Phenylenediamine, 2 4-dinitro-, 3343^a.
 Uric acid, (hydroxymethylene) 2120^a.
C₆H₅N₂O₂S Benzenesulfonic acid 2 4-dinitro-, hydrazide, 2702^a.
C₆H₅O See *Phenol*.
C₆H₅OS Ketone methyl thienyl, 2719^a.
C₆H₅O (See also *Hydroquinone Pyrocatechol Resorcinol*)
 2 Furaldehyde, 5-methyl 950^a.
C₆H₅O₂S Benzenesulfonic acid 501^a.
C₆H₅O₂Sn Benzenesulfonous acid 3976^a.
C₆H₅O₂ (See also *Phloroglucinol Pyrogallol*)
 Benzenetriol 2034^a.
 2 - Furaldehyde, 5 (hydroxymethyl), 2718^a.
 3 Furancarboxylic acid, 2 methyl, 1245^a.
 Maltol, 1007^a.
 Pyromucic acid, Me ester 3645^a, 5603^a.
 -, 5-methyl, 950^a.
C₆H₅O₂S See *Benzenesulfonic acid*.
C₆H₅O₂ Pyromucic acid, 5 (hydroxymethyl) 2457^a.
 1 4 Pyrone 5 hydroxy 2 (hydroxy methyl), 279^a, 1534^a, 2316^a.
C₆H₅O₂S 1 Phenol 4 sulfonic acid 1504^a.
C₆H₅O₂ Acetic acid, 1874^a 4915^a.
C₆H₅O₂ Phenyl mercaptan 30^a 504^a.
C₆H₅AsNO₂ *m* Arsanilic acid 1 6 sodo- 92^a.
C₆H₅AsN₂O₂ Arsanilic acid nitro- 283^a.
C₆H₅AsO₂ Benzenearsonic acid 2192^a.
C₆H₅AsO₂ Benzenearsonic acid *p* hydroxy, λ salt P 525^a P 2155^a.
C₆H₅AsO₂S Benzenearsonic acid sulfo and Ba salt 92^a.
C₆H₅AsO₂S Benzenearsonic acid 4 hydroxy 3 sulfo- 92^a.
C₆H₅AsO₂S Benzenearsonic acid 3 4 d hydroxy 5 sulfo- 02^a.
C₆H₅BO₂ Boric acid phenyl 94^a 1227^a.
C₆H₅BrN₂O Uracil 5 bromo-1 3 dimethyl 1830^a.
C₆H₅BrN₂O₂ Barbituric acid 5 bromo 3 ethyl 4109^a.
C₆H₅HgN₂O 3585^a.
C₆H₅N (See also *Andine*)
 Picoline 953 4268^a 4270^a and salts 3345^a.
C₆H₅NO (See also *Phenol amino* -)
 Hydroxylamine phenyl 4033^a 4244^a.
 Ketone methyl pyrrol, 145^a 2484^a 3397^a.
 2 Picoline 3 ol P 1539^a.
 Pyridone 4 methoxy 296^a.
 4(1) Pyridone 1 methyl 206^a.
 2 Pyrrolealdehyde 5 methyl 3008^a.
C₆H₅NO₂ Ketone 2 furylmethyl oxime 2143^a.
 Phenol hydroxylamine P 550^a.
 1 Pyrroleacetic acid 1521^a.
 Resorcinol 4 amino- P 2437^a.
C₆H₅NO₂S Addn compd of PhNH₂ and SO₂ 4482^a.
C₆H₅NO₂ Acrylic acid α -cyano- β hydroxy Et ester 2110^a.
C₆H₅NO₂S Benzenesulfonic acid, α -amino 501^a.
 Metamhe acid and HCl 4707^a.
 Sulfamic acid phenyl 4482^a λ salt 2703^a.
 Sulfamic acid 2703^a and HCl, 4707^a.
C₆H₅NO₂S Metanilic acid 4 mercapto- 1506^a.
C₆H₅NO₂S Sulfamic acid (phenylsulfon), and λ salt, 4526^a.
C₆H₅N₂O₂ Hydrazine *p* nitrophenyl, 4797^a.
C₆H₅N₂O₂S Benzenesulfonic acid *p* nitro-, hydrazide, 2702^a.
C₆H₅ Cyclohexadiene, 4235^a.
 1 Penten 3 ine, 2 methyl 1814^a.
C₆H₅AsNO₂ *m*-Arsanilic acid, 4 hydroxy 283^a.
 3 Pyridinearsonic acid 1,2 - dihydro 2 keto-1 methyl 4268^a.
C₆H₅AsNO₂S Benzenearsonic acid, sulfamyl, 93^a 253^a.
C₆H₅AsNO₂S *m* Arsanilic acid 6 sulfo- 92^a.
C₆H₅BN₂O Boric acid (*m* aminophenyl) 1227^a.
C₆H₅BrN₂O Aspartic acid, N bromocetyl, 2693^a.
C₆H₅ClN Pyrrole 1 (β -chloroethyl), 1521^a.
C₆H₅ClN₂O₂Sb Benzenesulfonic acid, 3,4 d amino 5-chloro- P 4283^a.
C₆H₅ClN₂Zn 3923^a.
C₆H₅Cl₂O Furo[3,2 β]furan 3 6 dichloro-hexahydro, 4267^a.
C₆H₅Cl₂O Succinic acid α β -dichloro-, di Me ester, 1493^a 3158^a.
C₆H₅HgN₂O₂ 3585^a.
C₆H₅NO₂Sb Benzenesulfonic acid, *p* amino-, 4537^a.

- C₆H₅N₂ (See also *Hydrazine phenyl Phenylene diamine*)
 Pyrazine 2,5-dimethyl, 272⁸
 C₆H₅N₂O Phenol diamine 657¹, 4658⁷
 Pyridine 5-amino-2-methoxy, and di HCl 903³
 2(1) Pyridine 5-amino-1-methyl 803³
 1 Pyroloacetamide 1521¹
 2 Pyroloaldehyde, 5-methyl oxime 3005⁸
 C₆H₅N₂O₂ Imidazolepropionic acid 1901¹
 Uracil 3,6-dimethyl 841¹
 C₆H₅N₂O₂ Propionitrile β β sulfonylthio-, 5023¹
 C₆H₅N₂O₂ Imidazolelactic acid, 1901¹
 C₆H₅N₂O₂ Benzenesulfonic acid 2,4-diamino-, 2703¹
 Benzenesulfonic acid o-hydrazine 5023¹
 C₆H₅N₂O₂ 3-Hydantoicacetic acid Me ester 4228¹
 5-Pyrimidinacetic acid hexahydro- 4 di keto- P 1039¹
 C₆H₅N₂S Phenylthiocaptan 2,5-diamino- 4m deriv P 4360
 C₆H₅N₂NaO₂ Disodium deriv. of compd from glycol and urea 279⁴
 C₆H₅N₂O₂ Furazay 3 acetyl 4 amino- oxime Ac deriv 3622¹
 C₆H₅N₂O₂ Mannitol hexanolate 1674⁴ P 5533⁴
 C₆H₅N₂O₂ Cyclohexenone 939
 Sorbaldehyde 683¹ and 4H₂O₂ compd 5691¹
 C₆H₅N₂O₂ 1,2-Cyclohexadienediol 4857⁴
 1,2-Cyclohexenedione 3-hydroxy 3319⁴
 C₆H₅N₂O₂ Glutaric anhydride β-methyl 3675¹
 C₆H₅N₂O₂ Fumaric acid di Me ester 5338¹
 Et ester 4703¹
 Glutaric acid α-methylene 831¹
 Hydromutonic acid 3399
 Maleic acid, di Me ester 5315¹ Et ester 4703¹
 C₆H₅N₂O₂ 2,3-p-Dithianed carboxylic acid 2978¹
 C₆H₅N₂O₂ 2,5-Selenophenedicarboxylic acid tetrahydro- and 4,6-di 4767¹
 C₆H₅N₂O₂ 1,1-Cyclohexanedicarboxylic acid 3-hydroxy, 2979⁴
 C₆H₅N₂O₂ Triethylallyl acid 4910
 C₆H₅N₂O₂ See Citric acid
 C₆H₅N₂O₂ Mannitol trimethyl 3064¹
 C₆H₅N₂O₂ 2,3-Triazomercaptan 4-amino-6-propyl Ag deriv 007
 C₆H₅N₂O₂ See Aluminium acetate
 C₆H₅N₂O₂ 1-Pentene-3-ol, 1-bromo-3-methyl 73¹
 C₆H₅N₂O₂ Chloroform acetate 5655¹
 C₆H₅N₂O₂ Pentene 4-chloro-4-methyl 1315¹
 C₆H₅N₂O₂ Asparagine 1-chloroacetyl 78 2814¹
 C₆H₅N₂O₂ 4-Pyranecarbonylchloride tetrahydro-, 6819
 C₆H₅N₂O₂ Acetoacetic acid α-chloro- Et ester, 2923¹
 Furoyl 2,6-furan-3-ol, 6-chlorohexahydro- 4376¹
 C₆H₅N₂O₂ Cyclopentanediol trichloromethyl 5639¹
 C₆H₅N₂O₂ Chloroform acetate 1074¹
 C₆H₅N₂O₂ Urdolium acetate 5655¹
 C₆H₅N₂O₂ 3,6¹
 C₆H₅N₂O₂ Lanthanum acetate 5655¹
 C₆H₅N₂O₂ α-Fructonitrile γ-methyl, 7074¹
 2967¹ 4183¹, 4222¹
- C₆H₅N₂O 1-Methylpyridinium hydroxide, 1854¹
 4-Pyrazinole, tetrahydro-, 681¹
 1-Pyrololthanol, 1820¹
 Sorbaldehyde, oxime, 5691¹
 C₆H₅N₂O₂ Isovaleric acid, α-cyano-, 3619¹
 Propionic acid, α-cyano-, Et ester, 517¹
 C₆H₅N₂O₂ 2-Thiophenethylamine, 2194¹
 C₆H₅N₂O₂ 3-Benzeneethionic acid, 3,4-diamino-, P 4285¹
 C₆H₅N₂O₂ Pyrazine, 3-amino-2,5-dimethyl, 2725¹
 Pyrimidine 2-amino-4,5-dimethyl, 1204¹
 C₆H₅N₂O₂ (See also *Hydrazine*)
 Cuplerton, 261¹
 C₆H₅N₂O₂ Rutidine 2-mercapto-, and di HCl, 12474⁴
 1,3,4,6-Thiothiazine 5-ol, 2-methylamino-, Ac deriv, 2002¹
 C₆H₅N₂O₂ 3-Hydantoicacetamide, N-methyl 4225¹
 C₆H₅N₂O₂ - H₂O Isoxanthine, 9-methyl-8-sulfono-, NH₂ salt, 3860¹
 C₆H₅N₂O₂ N-codymium acetate, 5585¹
 C₆H₅N₂O₂ Praseodymium acetate, 5585¹
 C₆H₅N₂O₂ Samarium acetate, 5585¹
 C₆H₅N₂O₂ Lithium acetate 5585¹
 C₆H₅N₂O₂ (See also *Cyclohexene*)
 1,3-Butadiene, 2,3-dimethyl, 1482¹, 1796¹
 Hexadiene 1482¹ 2854¹
 Pentadiene methyl 1796¹
 C₆H₅N₂O₂ Propionic acid α-arsenobis(1), P 2150¹
 C₆H₅N₂O₂ Propionic acid, α,α-dichlorobis-, P 1151¹
 C₆H₅N₂O₂ Butyric acid, α-bromoacetamidol, 2693¹
 Isobutyric acid α-bromoacetamidol, 2693¹
 C₆H₅N₂O₂ Cyclohexane, 1,4-dibromo-, 5595¹
 C₆H₅N₂O₂ Thiophene, 3,4-dibromotetrahydro-3-methoxy-4-methyl 5-dioxide, 277¹
 C₆H₅N₂O₂ Butane 1,2,3,4-tetrabromo-2,3-dimethyl 1216¹
 C₆H₅N₂O₂ Ether, bis(β-(dibromomethyl)sulfonylthyl) 77¹
 C₆H₅N₂O₂ Acetylene dichloro compd with Et₂O, 4217¹
 C₆H₅N₂O₂ 3-Butenedisulfonyl chloride, 2,3-di-methyl, 1216¹
 C₆H₅N₂O₂ 3279¹
 C₆H₅N₂O₂ Acetamide α-cyano-α-(hydroxymercur) N-propyl, 3619¹
 C₆H₅N₂O₂ Isocyanic acid β-iodo-α-dimethyl-propyl ester (?) 3619¹
 Isocyanic acid β-iodo-α-methylisobutyl ester (?) 3619¹
 C₆H₅N₂O₂ Thiazole 2,4-dimethyl, methanediol, 704¹
 C₆H₅N₂O₂ Cyclohexane, 1,4-dioxo-, 5595¹
 C₆H₅N₂O₂ Potassium salt of semicarbazone of compd from 2-methyl 2-butanediol sulfone 277¹
 C₆H₅N₂O₂ Pyrolo, 3-amino-2,4-dimethyl, 961¹
 C₆H₅N₂O₂ Urea (γ-keto-β-methyl α-butyryl) 1254¹
 C₆H₅N₂O₂ See *Cordisole*
 C₆H₅N₂O₂ 4-Imidazolecarboxamide, 4-amino-tetrahydro 2,5-dioxo N,1-dimethyl, 3967¹
 C₆H₅N₂O₂ + 3H₂O Compd, in 95-7%, from glycol and urea, 279¹
 C₆H₅N₂O₂ 2-Triazomercaptan, 4-amino-6-propyl, 705¹
 C₆H₅N₂O₂ (See also *Cyclohexenone*)

- Allyl ether, 4627¹, 5392³
 β -Butenaldhyde, α, α dimethyl, 2660²
 Cyclohexane, epoxy 2909²
 Δ^1 -Cyclohexenol, 4235²
 Cyclopentanone, 3-methyl, 3318², 5403²
 α -Hexenaldehyde 5140²
 Mesityl oxide, P 716², 939², 2124²
 Δ^1 -2 Pentenone, 3 methyl, 3312², 3319²
C₆H₁₀O₂ Anhydrosulfoxylhexanone, 458²
 Crotonic acid, Et ester 82²
 Hexanedione, 1502², 4548²
 α Hexenoic acid 5140²
 Hydrosorbic acid 3316²
 Methacrylic acid Et ester P 5177²
C₆H₈O₃ Acetoacetic acid β thio- Et ester 5663²
C₆H₈O₃S Formic acid, thiois[thioiso di Et ester, P 4890²
C₆H₈O₄ (See also *Acetoacetic acid ethyl ester*)
 Caproic acid 4-keto- 2470²
 2,5 Hexanedione 3 hydroxy 494²
 Levulinic acid Me ester 498², 5398²
 Propionic anhydride, P 2739²
 4 Pyranicarboxylic acid, tetrahydro- 681²
C₆H₈O₄S Thiophene 2 5-dihydro-3 methoxy 4 methyl S dioxide 277²
C₆H₈O₄ (See also *Adipic acid Glucal*)
 1,4 5 8 Dioxinodioxin hexahydro 4849 5170²
 Glutaric acid β methyl 762², 5664²
 Malonic acid ethylmethyl 5664²
 — isopropyl 498², 5664² salts 5823²
 —, methyl di Me ester 917²
 —, propyl 498², 5664² salts 5823²
 Mannal 5147²
 Mannide 4526²
 Oxalic acid di Et ester 2038², 5323 5399², 5892² compd with BF₃ 5891
 Succinic acid α β dimethyl 5664²
C₆H₈O₄S Propionic acid β β thiois P 1957²
C₆H₈O₄S Acetic acid α α (ethylthioenedithio) bis 4393²
 Propionic acid dithiois 584²
C₆H₈O₄ α Amylose 1495²
 Anhydrofructose 1223²
 Anhydroglucose 85²
 3 6-Anhydrodione, 2120²
 Calactal 2-oxy, 279²
 Glucosonic lactone, 498²
 Lactic acid, lactate 5934²
 Levoglucosan, 1496²
(C₆H₈O₄)_n See *Cellulose Dextrin Glycogen Inulin*
C₆H₈O₄ Galactonolactone, 277², 5398²
 Glucanolactone 277²
 Mannonolactone 277², 5815²
 Succinic acid α β -dimethoxy 5149²
C₆H₈O₄S Acetic acid α α' (ethylenedisulfonyl) bis 5392²
C₆H₈O₄ (See also *Galacturonic acid Glucuronic acid Mannuronic acid*)
 Hexuronic acid, 084², 2483², 5463²
C₆H₈O₄ Glutaric acid trihydroxymethoxy 5592²
 Mannosaccharic acid K salt 5893²
 Mucic acid P 5534²
 Saccharic acid 1873², 2171²
C₆H₈O₄S Acetic acid (ethylenedisulfonyl) bis-, 277²
C₆H₈S Allyl sulfide 2365², 5094²
C₆H₈AuBr₂ Cyclohexylgold dibromide 4220²
C₆H₈Br Cyclohexane, bromo-, 864²
 2 Hexene, 4 bromo- P 1261²
- C₆H₁₀BrMg** Cyclohexylmagnesium bromide 2688 2079²
C₆H₁₀BrN₂O₂ See *Bromural*
C₆H₁₀Cl Cyclohexane chloro 864²
C₆H₁₀ClMg Cyclohexylmagnesium chloride 2070²
C₆H₁₀ClO Valeryl chloride β methyl 3312², 3826²
C₆H ClO₂ 1 Butanol 3 chloro- acetate P 3666²
C₆H₁₀Cl₂NO₂ Carbamic acid β β dichloroethyl propyl ester 5213²
C₆H₁₀Cl₂O P 2 Propanol 1 3-dichloro- secondary phosphate Cu salt 3893²
C₆H₁₀Cr₂NO₂ Chromium acetate nitrate 4480²
C₆H₁₀ Cyclohexane iodo 864²
C₆H₁₀N Capronitrile 912², 2669², 5323²
 Isocapronitrile 4795 5893²
 Δ^1 -Pyrrolone 1 2 dimethyl and salts 102²
 — 2-ethyl and chloroacetic 2997²
 Valeronitrile β methyl 3626
C₆H NO Cyclohexanone oxime 2115²
 Hexamethylamine 2 keto 484²
 Δ^2 2 Pentenone 3 methyl oxime 4310²
 2 Pyrroldione 5 ethyl and salts 4548²
C₆H₁₀NO₃ Carbamic acid allylthio Tt ester 556²
C₆H₁₀NO Crotonic acid β amino Et ester 5394²
 α Pentenamide γ methyl 2972², 4183²
 4 Pyranicarboxamide tetrahydro- 681²
C₆H₁₀NO₂ Oxamic acid Bu and isobutyl esters 5892²
C₆H₁₀NO₂S Butyric acid α formamido- γ methyl mercapto- 5396²
 Imidodicarboxylic acid thioiso- di Et ester 2977²
C₆H₁₀N₂O Acrolein α -ethyl (?) semicarbazone 2414²
 α Pentenaldehyde semicarbazone 5140²
 Sebacaldehyde semicarbazone 2414²
C₆H₁₀N₂O Asparagine glycol 5993²
 Glycine N (N glycidylglycol) 2627², 5816²
C₆H₁₀ (See also *Cyclohexane*)
 Butene 2 3-dimethyl 1215², 3617²
 — 2 ethyl 3617²
 Cyclopentane methyl 5890²
 Cyclopropane 1 ethyl 2 methyl 4530²
 Hexene, 1737²
 1 Pentene 2 methyl, 3617²
C₆H₁₀Ag₂IO₂ 5362²
C₆H₁₀BrClO Methane (β bromo β -chloroiso propoxy)ethoxy 2979²
C₆H₁₀Br₂ Hexane 2 4 dibromo 4530²
C₆H₁₀Br₂O Ether α β -dibromobutyl ethyl, 2684²
C₆H₁₀Br₂Se Selenepane dibromide 1521²
C₆H₁₀ClIO Methane (β -chloro β isodiso-propoxy)ethoxy 2979²
C₆H₁₀ClNO Acetamide α -chloro-*N* *N*-diethyl 2116², 4525²
C₆H₁₀Cl₂HgSe Cyclohexenopentane 2 methyl, compd with HgCl₂, 1521²
 Selenepane compd with HgCl₂, 1521²
C₆H₁₀Cl₂O Ether, bis(β chloroisopropyl) 2416²
 3 Pentanol, 3 (dichloromethyl), 2112²
C₆H₁₀Cl₂O Methane (β , β dichloroisopropoxy) ethoxy 2979²
C₆H₁₀Cl₂Se Selenepane dichloride 1521²
C₆H₁₀CuN₂Na₂O₂ Malonamide, Na Cu deriv., 497²
C₆H₁₀HgO₂S Butyric acid, α (ethylmercuri mercapto), 1821², 4907²

C₆H₁₁N Cyclohexylamine, 2 isopropyl, HCl, 3617¹
 C₆H₁₁N₂ N-vinylpiperazine diiodide 1523¹
 C₆H₁₁N₂ Acetone azine 2413¹
 C₆H₁₁N₂O 1 isopropyl dimethyl, di Me deriv
 801
 C₆H₁₁N₂O 2 isopropyl 1 alanyl, 5802¹
 C₆H₁₁N₂O 1 1 Butanediol dicarbamate P
 4136¹
 Succ nam de α β-dimethoxy 5144¹
 C₆H₁₁N₂O 2 See Cytine
 C₆H₁₁N₂O Carbamate anhydride tetramethyl
 ethyl P 4899¹
 C₆H₁₁N₂O Hexamethylhexamine
 C₆H₁₁N₂O Benzenehexamine, 4455¹
 C₆H₁₁N₂O (See also Cyclohexanol)
 Butanone 2 3 dimethyl 1¹904¹
 2 1 Butanol 2 2-dimethyl 2686¹ 2694¹
 1-ethyl butyl vinyl P 307¹
 1-ethyl 2-methylpropyl 2687¹
 1-ethyl 2-methylpropyl P 302¹
 2 Hexanone 2132¹
 Ketone b 114 116¹ from pentane CO
 and AlCl₃ P 1558¹
 Pinacol 2059¹
 C₆H₁₁O₂ Ether ethyl β vinylmercaptoethyl
 and HgCl₂ compound 2114¹
 C₆H₁₁O₂ (See also Acetic acid butyl ester
 Caproic acid)
 Acetic acid isobutyl ester S
 Acid b 190-1¹ from pentane CO and
 AlCl₃ P 1255¹
 Butyraldehyde ethoxy P 3558¹
 ~ α-ethyl α hydroxy 2113¹
 Butyric acid Et ester 1216¹ 1507¹, 4922¹
 1 2 Cyclohexanediol 921¹ 1798¹
 Ethylene oxide (isopropoxyethyl) 2697¹
 Hexanone hydroxy 483¹
 Isobutyric acid Et ester 1218¹ 1804¹
 2 Pentanone 4 hydroxy-4 methyl 2631¹ P
 4549¹ 5825¹
 Valeric acid β methyl 480¹ 2118¹ 3626¹
 4815¹
 C₆H₁₀S + H₂O Cyclohexanes (sulfonic acid mono
 hydrate 1812)
 C₆H₁₀O₂ (See also Paraldehyde)
 Butyric acid γ ethoxy 3958¹
 ~ α hydroxy Et ester 666
 Cyclohexanediol 921¹ 436¹
 5-m Diolanol 2 2-dimethyl 916¹
 Glycolic acid Bu ester P 2153¹
 2 Hexanone 5 α hydroxy 483¹
 2 Propanol 1 methoxy acetate 2416¹
 781
 C₆H₁₀O₂ Cyclohexanesulfonic acid 1812¹ salts,
 781
 C₆H₁₀O₂ Acetic acid β ethoxyethyl 2417¹
 1 2 4 5-t cyclohexanediol, 4253¹
 p Diolane 2 3-dimethoxy 3963¹
 Maxonol α hydroxy 5147¹
 Propandiol methoxy monoacetate 1454
 Propion a, mono- 5397¹
 C₆H₁₀S Cyclohexylsulfonic acid, and salts
 283¹
 C₆H₁₀O₂ (See also Hexanone)
 Arabitolide α-methyl, 1795¹
 Pucos 4229¹
 Quercitol 581A
 7492¹
 C₆H₁₀O₂ (See also Fructose Galactose α-Glucose
 and D-glucose)
 2 Deoxyglucose acid and Diol salt 495¹
 Glucose CaCl₂ compd 1223¹
 Hexanone acid, 915¹ Ca salt 4840¹

C₆H₁₀O₂ Butenedisulfonic acid, 2,3-dimethyl,
 salts, 1216¹
 C₆H₁₀O₂ (See also Glucosic acid)
 Galactonic acid, 918¹, 5398¹, Ca salt,
 4859¹
 Gluconic acid, 918¹
 Mannonic acid 917¹ Ca salt, 4859¹
 (Alcane acid, 918)
 C₆H₁₀O₂ Carbamic acid, trihydro-, isomethyl ester,
 λ salt, 2120¹
 C₆H₁₀O₂ Cyclohexenopentane, 2 methyl, 1521¹
 pentenopane, 1521¹
 C₆H₁₀O₂ 1,2 Diselenocane, 1521¹, 1522¹
 C₆H₁₀As Arsenidine, 1 methyl, 3000¹
 C₆H₁₀AsBr Arsenidyl, bromomethyl, 3000¹
 C₆H₁₀AsBr Arsenidine, 1 methyl, 3000¹
 3000¹
 C₆H₁₀Br Hexane 1 bromo-1 methyl, 5830¹
 Pentane 1 bromo-1 methyl, 3623¹
 C₆H₁₀Br Ether, α-bromomethyl methyl, 5672¹
 Ether, β bromomethyl butyl, 3958¹
 ~ α-bromomethylpropyl ethyl, 2686¹
 C₆H₁₀Cl Pentane, 1-chloro-3-methyl, 2626¹
 C₆H₁₀Cl Ether, butyl β-chloroethyl, 3958¹
 Ether, α-chloromethyl methyl, 4525¹
 Ether, chlorobutyl ethyl, 2684¹, 4525¹
 C₆H₁₀Cl₂ Dichlorane, α hydroxyethylchloride,
 and HgCl₂ compd, 2114¹
 C₆H₁₀Cl₂ 2 Propanol, 1 (β-chloropropyl),
 2416¹
 C₆H₁₀CuS Amyl mercaptan, α-methyl, Cu
 deriv, 2381¹
 Hexyl mercaptan, Cu deriv, 2381¹
 C₆H₁₀I₂ Hexane 1 iodo-, 5322¹
 C₆H₁₀INO₂ Urea, (β-iodo-α,α-dimethylpropyl)
 (3), 3516¹
 Urea, (α-iodo-α-methylisobutyl) (3), 2616¹
 C₆H₁₀I₂ Ethyldimethylsulfonium iodide, CH₃
 compd, 282¹
 C₆H₁₀N Cyclohexylamine, 500¹, 2114¹, P
 5433¹
 2 Piperidine 953¹
 Pyrrolidine, 2-ethyl, and HCl, 4525¹
 C₆H₁₀NO Butyramide γ 4-dimethyl, 2972¹
 Caproamide, 2972¹
 Cyclohexanol, amino-, 500¹ and -HCl,
 methyl 4771¹
 1 thylene oxide, β-dimethylamino-α,α-di
 methyl 4771¹
 2 Pentanone 4 methyl, oxime 1506¹
 γ-irradiated β methyl, 3626¹
 C₆H₁₀O₂ (See also Lactone Valerone)
 Butyramide, α-ethyl-α hydroxy, 5605¹
 Butyric acid, β-amino-, Et ester, 2117¹
 ~ γ-dimethylamino- and salts, 1216¹
 ~ β-ethylamino- 2117¹
 Caproic acid, amino- 455¹ and salts,
 4547¹
 Isobutyric 1884¹, 2417¹
 Isovaleramide α hydroxy-α methyl, 3960¹,
 5603¹
 4 Morpholinomethanol, 4272¹
 Valeramide α hydroxy-α methyl, 3960¹,
 5603¹
 Valine β methyl, 4527¹
 C₆H₁₀NO₂ Propylamine λ methyl, oxalate,
 4572¹
 Succinic acid dimethylamino acid salt 1218¹
 C₆H₁₀O₂ Glucosamine b 1053¹, 2969¹, 4902¹
 Glucosamine 2120¹
 C₆H₁₀NO₂ Butyramide acid, α-ethyl-α hy
 droxy, monoanhydride with H₂SO₄,
 λ salt 5605¹

- Valerianic acid, α hydroxy- α methyl monoanhydride with H_2SO_4 , 5603¹
 $C_6H_{12}NO_6$ Glucose, oxime, 1220²
 $C_6H_{12}N_2O$ Butyraldehyde α methyl, semi-carbazone 71¹
 1 Piperidinecarboxylic acid hydrazide, *HCl* 4269²
 $C_6H_{12}O_6P$ Galactose 6-phosphate 5666¹
 Glucosephosphoric acid, 498² and *Ba* salt 5665², 5666¹
 C_6H_{12} (See also *Hexane*)
 Butane, dimethyl-, 2275² 2889²
 Pentane, methyl-, 2275² 2880²
 $C_6H_{11}AuBr$ Disopropylgold bromide 4220²
 Dipropylgold bromide 4220²
 C_6H_5AuCl Disopropylgold chloride 4220²
 Dipropylgold chloride, 4220²
 $C_6H_{11}CaO_2$ Calcium diglyceroate 3950¹
 $C_6H_{11}ClNO_3$ Butylsulfonfyl chloride ethyl imido-, 1812²
 $C_6H_{11}N_2$ Piperazine, dimethyl 2729¹ 3617¹
 $C_6H_{11}N$ O Leucineamide 4850²
 $C_6H_{11}N_2O_2$ (See also *Lysine*)
 Hydroxylamine β amyl α methyl β nitroso-, 5406²
 $C_6H_{11}N_2$ Adipamide di *HCl* 5665²
 $C_6H_{11}N_2O_2$ See *Arginine*
 $C_6H_{11}O$ Ether butyl ethyl 931¹
 Ether *tert* butyl ethyl 931¹
 2-Hexanol 1818¹
 Hexylalcohol 2889² 5322²
 Isopropyl ether P 302¹
 Pentanol methyl 3626² P 4724² 4845²
 Propyl ether, P 302¹ 2038², 5322²
 $C_6H_{11}O_2$ Acetal 4523² 5092²
 1 Butanol 4-ethoxy 4525²
 Butyraldehyde di Me acetal 1798¹
 Hexanediol 1798¹ 4530¹
 1 Pentanol 5-methoxy 4525¹
 Pinacol 1795¹ 1799²
 2 Propanol 1-isopropoxy 2416²
 $C_6H_{11}O_2S$ 1 Butanesulfonic acid, Et ester, 1812²
 Ethanol 2 (β ethoxyethylmercapto), 2114²
 $C_6H_{11}O_2S_2$ Ethane, *s* bis(ethylsulfonfyl) 5392²
 $C_6H_{11}O_2$ Propane, 1,2,3 trimethoxy 2692¹
 1,2 Propanediol 3 propoxy 684¹
 $C_6H_{11}O_3S$ Butyl ethyl sulfite 5662²
 Hexanesulfonic acid, 5393²
 Isopropyl sulfite 1797²
 Propyl sulfite, 1797²
 $C_6H_{11}O_3$ 1,3 Propanediol, 2 (hydroxymethyl) 2 (methoxymethyl), 1801²
 $C_6H_{11}O_3S$ Sulfone bis(β methoxyethyl) 5662¹
 $C_6H_{11}O_3S_2$ 1,6-Hexanediselenic acid, 1522¹
 $C_6H_{11}O_4$ Rhamnitrol, 84¹, 4457¹
 $C_6H_{11}O_4$ + 3H₂O Rhamnitrol anhydrate, 1486¹
 $C_6H_{11}O_4$ See *Mannitol Sorbidol*
 $C_6H_{11}S$ Amyl mercaptan α -methyl-, 75²
 Hexyl mercaptan 75²
 Propyl sulfide 1663², 5094²
 C_6H_5S Propyl disulfide 4063²
 C_6H_5BrSn Stannane bromotriethyl 3976²
 $C_6H_5ClINO_2$ Chloro- β hydroxypropyltrimethyl ammonium iodide 5395²
 $C_6H_5ClO_3S$ Tri(β hydroxyethyl)sulfonium chloride, 2114²
 C_6H_5ClPb Plumbane, chlorotriethyl, 2688²
 $C_6H_5ClN_2O_2Zn$, 2655²
 $C_6H_5HgI_3$ Triethylsulfonium mercuritriiodide, 690¹
 $C_6H_5HgI_3$ Triethylsulfonium dimercuripenta iodide, 690¹
 C_6H_5IN (See also *Triethylamine*)
 Amylamine γ methyl 3626²
 Dipropylamine, 1811¹ *H₂S* salt 4219² salts 70¹
 Hexylamine salts 70
 C_6H_5NO Butylamine γ ethoxy 3962²
 $C_6H_5NO_3S$ 1 Butanesulfonamide, γ ethyl, 1812²
 $C_6H_5NO_3S$ 1 Butanesulfonamide, γ ethyl 1812²
 $C_6H_5NO_3$ Choline formyl 1904²
 Triethylamine β β β' trihydroxy 3310² 5748² 5818
 $C_6H_5N_3$ Guanidine isomyl sulfate P 304¹
 γ Triazene hexahydro 1,3,5 trimethyl, 4523²
 $C_6H_5N_3O$ Semicarbazide 2 α ethylpropyl 2416²
 $C_6H_5N_3O_4P$ Arzaminephosphoric acid 1690²
 C_6H_5ClN Triethylammonium chloride 2626²
 $C_6H_5ClNO_3$ Dipropylamine perchlorate 3545²
 $C_6H_5C_6H_5IN$, 5108
 $C_6H_5FeN_3$ Ammonium ferrocyanide 5860²
 $C_6H_5N_3$ 1,6 Hexanediamine di *HCl* 4525²
 Putrescine dimethyl and salts 2691² +
 $C_6H_5N_3$ Arcane and salts 5665²
 $C_6H_5N_3S$ Guanidine α α thiodiethylene)bis-*HBr* P 553²
 C_6H_5Sn Stannane diethyl dimethyl 4863²
 C_6H_5AuBrN Diethylgold bromide compd with ethylenediamine 1216²
 C_6H_5AuIN Diethylgold iodide compd with ethylenediamine 1217
 C_6H_5BN Boron triethylamine 70²
 $C_6H_5O_3P_6$ Inositolhexaphosphoric acid *Ca* salt P 246¹
 $C_6H_5Cl_2MoN_3$ 3567²
 $C_6H_5Ag_2CoIN_3$ 5108
 $C_6H_5Ag_2I_2N_3NI$ 5108
 $C_6H_5Ag_2I_2N_3Zn$ 5108
 $C_6H_5BiCl_2CoN_3$ + 2H₂O 5108²
 $C_6H_5BiCl_2CrIN_3$ 5108
 $C_6H_5Br_2N_3Zn$ 3925²
 $C_6H_5Br_2CoN_3NI$ 5108
 $C_6H_5Br_2HgN_3NI$ 5108
 $C_6H_5Br_2CoHgN_3$ 5108
 $C_6H_5Br_2HgN_3Zn$ 5108²
 $C_6H_5CdCl_2N_3NI$ 5108
 $C_6H_5CdCrIN_3$ 5108²
 $C_6H_5CdHgIN_3$ 5108²
 $C_6H_5ChN_3Zn$ 3925²
 $C_6H_5Cl_2MoN_3$ 3587
 $C_6H_5Cl_2CoHgN_3$ 5108²
 $C_6H_5CrHgIN_3$ 5108
 $C_6H_5I_2N_3Zn$ 3925²
 $C_6H_5N_3V$ 2935²
 $C_6H_5MoN_3$ Potassium manganocyanide, 2917²
 $C_6H_5NO_3Zn$ + 6H₂O 889²
 $C_6H_5MnN_3$ Potassium manganocyanide, 2917²
 $C_6H_5O_3$ Lanthanum oxalate 2901²
 $C_6H_5MoO_3$ Molybdenum carbonyl P 5523²
 $C_6H_5Ba_2K_2N_3S$ + 5H₂O Barium potassium thiocyanate 2044¹
 $C_6H_5BrO_3S$ Benzoic acid, 2,3,4,5 tetrabromo- β -sulfo- anhydride, 511²
 $C_6H_5NO_3S$ Saccharin tetraoxo- 511²
 C_6H_5ClN Benzenetrinitrile, 2,4,6 trichloro 2698²
 $C_6H_5Cl_2OS$ Formic acid, chlorothiono-, 2,4,6 trichlorophenyl ester 931²
 C_6H_5BrClO Anisole, 4 bromo 2,3,5,6 tetra chloro- 5153²
 $C_6H_5BrN_2O_5$ Benzaldehyde, 4 bromo-3,5-dinitro- 1230²

- C₇H₁₁NNaO₂** See *Urosedecton*
C₇H₁₁N₂O₂ Toluene, α iodo-*p*, α dimtro-, 925¹
C₇H₁₁N₂S Benzothiazole, 1 amino-5-iodo-, 4881¹
C₇H₁₁O₂ Benzoic acid, iodo-, 1133¹ 1508¹
C₇H₁₁NO₂ 1(2) Pyridineacetic acid, 3 5-di iodo-2 keto-, P 1036¹ P 2523¹ and Na salt 4549¹
C₇H₁₁N (See also *Benzonitrile*)
 Benzene, isocyanato-, 8¹ 2423¹
C₇H₁₁NO Benzonitrile hydroxy 936¹ 4248¹
 Isocyanic acid Ph ester 8¹, 4536¹ 4795¹
C₇H₁₁NO₃ Thiocyanic acid hydroxyphenyl ester, P 5356¹
C₇H₁₁NO₂ 1(2) Benzoxazolone 286¹
C₇H₁₁NO₃ Benzosulfonazole 928¹
 Thiocyanic acid dihydroxyphenyl ester P 5356¹
C₇H₁₁NO₂ Benzaldehyde nitro- 5400¹ 5426¹ 5844¹
 5(4) Isoniazolone 3 (2 furyl), 2143¹
C₇H₁₁NO₃ See *Saccharin*
C₇H₁₁NO₄ (See also *Benzoic acid nitro-*)
 Quinolinic acid, 4269¹ Cu salt 3003¹
 Salicylic acid 5 nitroso-, Cu deriv., 3636¹
C₇H₁₁NO₃ Salicylic acid nitrosulfo- and salts 3636¹
C₇H₁₁N₂S (See also *Isothiocyanic acid* Ph ester)
 Thiocyanic acid phenyl ester, 2611¹
C₇H₁₁N₂ Benzothiazole mercapto- 503¹ P 974¹ P 1639¹ 2330¹ P 3671¹, P 5437¹
C₇H₁₁NO₂ Isoniazole 4,5 (aminomethylene)bis- 5168¹
C₇H₁₁N₂O₂ Benzothiazole 1 amino-5-nitro 1041¹
C₇H₁₁N₂O₂ See *Toluene, trimstro-*
C₇H₁₁N₂O₂ Anisole 2 4 6-trinitro- 4245¹ 4452¹
C₇H₁₁N₂O₂ Tetryl, 207¹ 1383¹ 2080¹
C₇H₁₁NaO₂ See *Sodium benzoate*
C₇H₁₁NaO₂ See *Sodium salicylate*
C₇H₁₁O₂ Rb, 2380¹
C₇H₁₁ Cuprene, 5846¹
C₇H₁₁NO₃ Benzenearsonic acid thiocyanato- 1228¹
C₇H₁₁NO₃ 4 Benzoxazolearsonic acid 1 mercapto-, P 3361¹
C₇H₁₁NO₃ Benzoic acid 4 amino-2 mercapto- 5 Au deriv. P 381¹
C₇H₁₁BF₂N₂O₂ 4 Nitro-*o*-toluenediazonium fluoroborate P 2298¹
C₇H₁₁BrFO Anisole, 1 bromofluoro- 3323¹
C₇H₁₁BrNO₂ 1(2) Pyridineacetic acid, 5-bromo-2 keto- P 1036¹ P 2523¹
C₇H₁₁BrFO Phenol dibromo-4 methoxy 4537¹
C₇H₁₁BrNO Ketone methyl 5 methyl 2 pyrrol tribromo deriv. 3008¹
C₇H₁₁ClFO Anisole chlorofluoro- 3323¹
C₇H₁₁ClO Anisole, 2 chloro-4 iodo- 4245¹
C₇H₁₁CINO Anthranilaldehyde 6-chloro- P 2859¹
 Benzamide, *p* chloro 2134¹
 Ketone 6-chloro-3 pyridyl methyl, 4268¹
C₇H₁₁CINO₂ Toluene 4-chloro-2 nitro, P 716¹
C₇H₁₁CINO₂ Sulfide, chloromethyl *o*-nitro phenyl, 2413¹
C₇H₁₁CINO₂ *p* Toluenesulfonic acid, 2-chloro-5-nitro-, 2702¹
C₇H₁₁CINO₂ Benzothiazoline 4-chloro-, 4265¹
C₇H₁₁CINO₂ 2(3) Benzimidazolone, 6 amino-4 chloro- P 4285¹
C₇H₁₁ClN₂O₂ 5-Nitro *o*-toluenediazonium chloride, 453¹
C₇H₁₁ClO₂P Homocatechylphosphorus chloride 501¹
C₇H₁₁ClO₂P Homocatechylphosphorus chlorosulfide, 501¹
C₇H₁₁Cl₂ See *Toluene dichloro-*
C₇H₁₁Cl₂O Anisole 2 5-dichloro- 4537¹ 4800¹
 Benzyl alcohol dichloro- 924¹ 4860¹
C₇H₁₁Cl₂O Benzyl alcohol 3 5-dichloro-2 hydroxy P 974¹
C₇H₁₁Cl₂O Anisole 2 chloro-4 iodo, dichloride 4245¹
C₇H₁₁Cl₂N *o*-Toluidine 3 5 6 trichloro- 1501¹
C₇H₁₁Cl₂O₂P Homocatechylphosphorus trichloride 501¹
C₇H₁₁FIO Anisole fluoriodo- 3323¹
C₇H₁₁FIO₂ *p* Toluenesulfonyl fluoride 3 iodo-, 283¹
C₇H₁₁FIO₂ Benzenesulfonyl fluoride 3 iodo-4 methoxy 283¹
C₇H₁₁F₂O₂S 1 Phenol 2 4 disulfonyl fluoride methyl 284¹
C₇H₁₁FeO₂ Compd from Fe(CO)₅ and divinyl 913¹
C₇H₁₁NO Toluene α iodo α nitro 925¹
C₇H₁₁NO 1(2) Pyridineacetic acid 3 iodo-2 keto- Na salt 5200¹
C₇H₁₁NO₂ Sulfamic acid benzoyl K deriv. K salt 4526¹
C₇H₁₁NO₂ Toluene α isonitro- Na salt, 924¹
C₇H₁₁N₂ Benzonitrile *m* (and *p*) amino- P 3359¹
 Nicotinonitrile 8 methyl, and HCl 4268¹
C₇H₁₁N₂O 2(3) Benzimidazolone 1603¹
C₇H₁₁N₂O Anthranilaldehyde 5-nitro- P 964¹ P 2859¹
 Benzamide *o* (and *p*) nitro- 2134¹
 Carbinol 4 isoxazolyl 5-isoxazolyl, 5168¹
C₇H₁₁N₂O₂ 2 Benzimidazole-sulfonic acid 703¹
 Metanilic acid 6 cyano P 3359¹
C₇H₁₁N₂O See *Toluene dimtro-*
C₇H₁₁N₂O Anisole 2 4 dimtro- 4245¹
C₇H₁₁N₂O₂ Benzenesulfonamide 4 formyl 3-nitro-, 928¹
C₇H₁₁N₂S 2(3) Benzimidazolone 2 thio- 2934¹
 Thiocyanic acid (*p* aminophenyl) ester P 1258¹
C₇H₁₁N 1,2 3 4 Tetrazole 5-phenyl P 3364¹
C₇H₁₁N₂O 1 2 3-Benzothiazole 1 methyl-6 nitro- 1250¹
C₇H₁₁N₂O Benzamidol 5-methyl-6 nitro- 4266¹
 Benzothiazole, 1 methyl-5-nitro-, 3 oxide, 4266¹
C₇H₁₁N₂O₂ Xanthine 8-(carboxymethylmercapto) 3965¹
C₇H₁₁N₂O Aniline *N* methyl 2,4 5-trinitro, 4534¹
C₇H₁₁O See *Benzaldehyde*
C₇H₁₁O₂ (See also *Benzoic acid Salicylaldehyde*)
 Benzaldehyde hydroxy 4277¹, 5426¹
 Benzene 1 2 methylenedioxy 4277¹
 Formic acid Ph ester 3625¹
 Toliquinone, 4538¹
C₇H₁₁O₂ Benzoic acid *o*-mercapto P 2153¹
C₇H₁₁O₂ (See also *Benzoic acid, hydroxy Per benzoic acid Protocatechuic acid Salicylic acid*)
 2 Furancarboxylic acid 2142¹
 Gentisaldehyde, 287¹
o-Pyrocatechuic aldehyde 287¹
p-Resorcylic aldehyde, 287¹, 2085¹
C₇H₁₁O Benzaldehyde 2 4 6-trihydroxy, 287¹
 Gallaldehyde, 4277¹
 Protocatechuic acid 3273¹
p-Resorcylic acid 971¹

- 2(1) Pyridone, 1-ethyl 5-nitro-, 953^a
 C₇H₇N₂O: Δ^{1,2}, 1,4 Pentadienol, 1,3-dinitro monacetate 940^a
 C₇H₇N₂ 1 2 3 Benzotriazole, 6 amino-1 methyl 1250^a
 C₇H₇N₂O 1,2,3 Benzotriazole, 5 amino 1 methyl, 3-oxide, 4265^a
 C₇H₇N₂O₃ Theobromine 2 thio-, 5894^a
 C₇H₇N₂O₃ (See also Theobromine Throphylidone) Isoranthine, 8 9 dimethyl 3966^a
 Paraxanthine, 1884^a
 C₇H₇N₂O₃ Uric acid dimethyl, 2120^a 4297^a
 C₇H₇N₂O₃ Methylamine picrate, 70
 C₇H₇N₂O₃ Methylamine styphnate 70^a
 C₇H₇N₂O₃ See Anisole Benzylalcohol Cresol
 C₇H₇O₃ 1,4 Thiopyrone 2 6-bis(methylmer capto) 952^a
 C₇H₇O₃ See also Guaiacol Saligenin)
 Orcinol, 939^a, 1761^a, 2660^a
 Phenol, methoxy, 563^a 5408^a
 1 Propanone, 1 (2 furyl) 513^a
 Pyrone dimethyl 2352^a 3994^a
 C₇H₇O₃Sn p Toluene-stannonic acid 3977^a
 C₇H₇O₃ 2 Furan-carbinol acetate 1245^a 3645^a 5603^a
 Hydroquinone, 2 methoxy 3980^a
 Pyromucic acid Et ester 124^a 3645^a 4263^a
 —, 5-methyl, Me ester 950^a
 C₇H₇O₃ (See also Toluene-sulfonic acid)
 Methanesulfonic acid, Et ester, 4840
 C₇H₇O₃ 1 Phenol 4 sulfonic acid, Me ester 3322^a
 C₇H₇O₃S Guaiacolsulfonic acid P 5248^a K salt 380^a 4660^a
 Toluene-sulfonic acid dihydroxy Ba salt 691^a
 C₇H₇O₃S 1 4 Thiopyrone 2 6 bis(methylsulfonyl) (?) 952^a
 C₇H₇O₃ Adipic acid α β γ 4-tetrahydroxy α methyl, dilactone 4528^a
 1,2,3 Butanetricarboxylic acid 1 hydroxy, γ lactone 1833^a
 C₇H₇O₃S Methuonic acid mono-Ph ester and derivs 4849^a
 C₇H₇O₃ 1 1,2,3 Propanetetracarboxylic acid 1803^a
 C₇H₇S Sulfide, methyl phenyl 2611^a
 p Toly mercaptan, 03^a
 C₇H₇S 1 4 Thiopyrone 2 6 bis(methylmer capto)-4 thio-, 952^a
 C₇H₇AsN₂O₃ 3 Pyridine-sarsonic acid 5-acet amido, P 3361^a
 C₇H₇AsN₂O₃ Arsanic acid, N methyl-nitro- 283^a
 C₇H₇AsO₃S Benzenesarsonic acid, (methylsulfonyl) 92^a, 93^a
 C₇H₇BO₃ Boric acid, tolyl 927^a
 C₇H₇BO₃ Boric acid, anisyl 927^a
 C₇H₇BrN₂ Hydrazine, (2 bromo-p tolyl) HCl 4244^a
 C₇H₇BrN₂O₃ Barbituric acid, 5 bromo-5 iso propyl, 5400^a
 Barbituric acid, 5 bromo-5-propyl 3400^a
 C₇H₇ClN₂O₃ Glyouame, chloromethyl, di Ac deriv, 80^a
 C₇H₇ClN₂O₃ Urea, α acetyl β (β-trichloro-α-hydroxyethyl), acetate 5213^a
 C₇H₇F₃N₂O₃ 1 Phenol 2,4-disulfonyl Sulfonide methyl, NH₂ deriv, 284^a
 C₇H₇IN₂ Pyridine 2 ethylamino-5 iodo, P 2245^a
 C₇H₇IN₂ 1 Ethyl 2 iodo-pyridosum iodide, 4269^a
 C₇H₇IN (See also Aniline N methyl Benzyl amine Toluidine)
 2 6-Lutidine and derivs, 3345^a
 C₇H₇NO Anisidine 503 1501^a, 1503^a and HCl 4^a 97^a
 Cresol amino 931^a 3346^a 4802^a
 Ketone ethyl 2 pyrrol 2484^a
 — methyl 5 methyl 2 pyrrol 3008^a
 Phenol, p methylamino- 502^a 2660^a
 1 Propanone 1 2 pyrrol 145^a
 Pyridone 2 (and 3) ethoxy 296^a
 2(1) Pyridone 4 6-dimethyl 1529^a
 — 1-ethyl 296^a
 2 Pyrrolealdehyde 5-ethyl 3008^a
 C₇H₇NO₃ (Guaiacol 5 amino HCl 3980^a
 1 Pyrrolepropionic acid 1521^a
 C₇H₇NO₃S Toluene-sulfonamide 4281^a, 2810 4534^a
 C₇H₇NO₃ Acetoacetic acid α-cyano, Et ester 917^a
 Butyric acid β-cyano-α β epoxy, Et ester 2975^a
 2 Furanpropionic acid β amino- 2143^a
 4 Pyrancarboxylic acid 4-cyanotetrahydro- 681^a
 C₇H₇NO₃S Sulfamic acid, tolyl Na salt, 2703^a
 Toluene-sulfonic acid amino 2703^a
 C₇H₇N₂O 3b Benzenesulfonic acid p-car bamido 4537
 C₇H₇N₂O Cyclopenta[4]pyrrolidine 2 amino-6 7 dihydro 1254^a
 C₇H₇N₂O 1 4 8 Pyrimidazol 5 3) one 2 8 dihydro 7 methyl 5665^a
 C₇H₇N₂O₂ α Phenylenediamine N^a methyl 4 nitro 4265^a
 Semicarbazide 4 hydroxy 1 phenyl, 3631^a
 C₇H₇N₂S Semicarbazide 4 phenylthio, 1504^a
 C₇H₇AsNO₃ m Toluene-sarsonic acid α amino 4 hydroxy P 714 P 1036^a
 C₇H₇BrNO₃ Iroline N bromoacetyl, 2693^a
 C₇H₇BrNO₃ Glutamic acid V bromoacetyl, 2693^a
 C₇H₇Br₂N₂O Benzotriazole 2-dibromoamino- 2a 3 4 5 6 6a hexahydro- 3617^a
 C₇H₇ClN Cyclohexanetrinitrile 2 chloro-, 4531^a
 Pyrrole 1 (γ chloropropyl), 1521^a
 C₇H₇ClNO₃ Probne 1-chloroacetyl 77^a
 C₇H₇Cl₂Hg₂O₃ Malonic acid, bis(chloromer cur), di Et ester 1219^a
 C₇H₇Cl₃NO Acetic acid α-trichloro- p peroxide 3961^a
 C₇H₇CuO₃ 3220^a
 C₇H₇INO Isocyanic acid 2 isodicyclohexyl ester 3616^a
 C₇H₇N₂ Malononitrile diethyl, 2697^a
 p-Phenylenediamine V methyl 50^a
 Tolylenediamine 503^a 1904^a 1903^a, 2123^a, 4313^a
 C₇H₇N₂O Ketone, methyl 5 methyl 2 pyrrol oxime, 3008^a
 2 Pyrrolecarboxamide 5 ethyl, 3008^a
 1 Pyrrolepropionamide, 1521^a
 2 Pyrrolidinetriole 1 acetyl, 3995^a
 C₇H₇N₂O₃ 4 Pyrancarboxamide, 4-cyanotetrahydro, 681^a
 Pyrimidine, 2,4 d methoxy 5 methyl-, 84^a
 2(1) Pyrimidone, 4 methoxy 1,5-dimethyl, 84^a
 2 Pyrrolecarboxylic acid, 4 amino-3 5-di methyl, 961^a
 Thymine, 3 ethyl, 84^a
 Urocol 1,3 5-trimethyl, 84^a
 C₇H₇N₂O₃S Thiosulfuric acid, 2,5-diamino p tolyl ester, 1250^a

- C₇H₁₀O₃: Acetic acid, α , α' (propylene)dithio bis-, and *Ca salt*, 1487¹
- C₇H₁₀O₄: Acetic acid, di-, 1910¹
Anhydromethylglucoside 658¹
- C₇H₁₀O₅: Guinic acid 1511¹ 1600¹ 3349¹, 3689¹, 4603¹
Sedosan 495¹
- C₇H₁₀O₅: Acetic acid α , α (propylene)disulfonylbis- 1487¹
- C₇H₁₀S₂: Cyclohexanecarboxylic acid dithio and *Ag salt*, 500¹
- C₇H₁₀Br: 1 Pentene, 2 bromo-4, 4 dimethyl 485¹
- C₇H₁₀BrO: Ether α (bromomethyl) Δ^2 butenyl ethyl 2684¹
- C₇H₁₁Cl: 2 Hexene 4-chloro 3 methyl P 710¹
- C₇H₁₁ClO: Caproyl chloride, β methyl 961¹ 2627¹
- C₇H₁₁ClO₂: 1 Propanol 2-chloro-, butyrate 2416¹
- C₇H₁₁ClNO₂: Carbamic acid β β dichloroethyl butyl ester 5213¹
- C₇H₁₁N₂O: Urea 2 iodocyclohexyl 3610¹
- C₇H₁₁N: Capromitrin β methyl 3627¹
Emanthoutride 912¹ 3323¹
 Δ^2 -Pyrrolane, 2 ethyl 1 methyl and salts 102¹
- C₇H₁₁NO: Heptamethylexamine 2 keto-, 1501¹
Cyclohexanecarboxylic acid 1 amino- 4531¹
2 Morpholine, 4-ethyl 3 methyl 5143¹
- C₇H₁₁NO₂: Isoleucine *N* formyl 2417¹, ²
- C₇H₁₁NO₃: Malonic acid amino- di Et ester 919¹, 1218¹ 1493¹ 4852¹ 4853¹
- C₇H₁₁NS: Acetic acid thiono- piperidine 3062¹
- C₇H₁₁N₂O: β -Dutenaldehyde α , α dimethyl semicarbazone 2686¹
 α -Hexenaldehyde semicarbazone 5140¹
 Δ^2 -2 Pentenone 3 methyl semicarbazone 3312¹ 3319¹
- C₇H₁₁N₂O₃: 1, 3, 4, 6 Thiodiazin 5-ol 2 isol utyl amino-, 3002¹
- C₇H₁₁N₂O₄: Levulinic acid Me ester semicarbazone 496¹
- C₇H₁₁N₂O₅: Alanine, *N* (N glycidylglycyl) 2741¹
Glycine *N* (N glycidylalanyl) 2741¹
- C₇H₁₁: (See also Cyclohexane methyl)
Cyclopropane, 1, 2 dimethyl, 2421¹ 5890
Cyclopropane, 1 methyl 2 propyl 4530¹
3 Heptene 1798¹
Pentene dimethyl 5661¹
— ethyl 1798¹
- C₇H₁₁AsN: Diisopropylgold cyanide, 4220¹
Diisopropylgold cyanide 4220¹
- C₇H₁₁BrNO: (See also *Neodarm*)
Valeramide α -bromo β ethyl P 381¹
- C₇H₁₁BrI: Heptane 2, 4-dibromo- 4530¹
Pentane 1, 2-dibromo-3 ethyl 1799¹
- C₇H₁₁N₂: Δ^2 -Pyrrolidine 5-isopropyl 3 methyl 2118¹
- C₇H₁₁N₂O₂: 3-Heptanedione dioxime 3005¹
- C₇H₁₁N₂O₃: Glycine *N* valyl 2627¹
Isovaleric acid, β glycidylamino-, 78¹
- C₇H₁₁N₂O₄: Propionic acid, bis(glycidylamino) 5905¹
- C₇H₁₁O: Cyclohexanecarbinol, 3319¹
Cyclohexanol methyl P 3034¹, 3319 4234¹
Emanthaldehyde, P 2730¹, 5322¹
Ether α -ethyl Δ^2 -butenyl methyl 2687¹
2 Heptanone 4861¹, 5603¹
Pentanone dimethyl 1799¹
- C₇H₁₁O₂: (See also *Emanthic acid*)
Acetic acid, Am ester 84, 1170¹
- Acrolein di Et acetal, 2114¹
Caproaldehyde, α -hydroxy- γ methyl, 2975¹ 3962¹
Caproic acid methyl 3620¹, 4845¹
1, 3 Dioxolane 4, 4, 5, 5-tetramethyl, 5393¹
Pyvalic acid Lt ester, 1218¹ 1797¹
Valeric acid Lt ester 1797¹
— α , β -dimethyl 4845¹
- C₇H₁₁O₂S: *m* Creol thiois- 5407¹
- C₇H₁₁O₃: Butyric acid γ propoxy 3955¹
Caproic acid α -methoxy 5672¹
2 Furancarbinol tetrahydro 5-methoxy 5 methyl (?) 485¹
Lactic acid butyl ester 3182¹
Propanol ethoxy acetate 2416¹
3 Pyranol tetrahydro 6 methoxy 6 methyl (?) 485¹
- C₇H₁₁O₄: Acetic acid β methoxyethoxy Et ester 2417¹
Acetic acid β propoxyethoxy 2417¹
Butyric mono- 5397¹
Isobutyric mono 5397¹
Propanol dimethoxy acetate 916¹ 1484¹ 260¹, ²
- C₇H₁₁O₅: Acetic acid [β -(β methoxyethoxy) ethoxy] 2417¹
Arabinoside α ethyl 1798¹
(Isocedronide methyl) 498¹
Khamnoside methyl 1798¹
- C₇H₁₁O₃S: Glucoside α methylthio- 4232¹
- C₇H₁₁O₄: (See also *Glucose methyl Glucoside methyl*)
Digitalonic acid 5692¹
Fructose 5 methoxy 5402¹
Fructose 1 methyl 4232¹
Galactoside methyl 1798¹ 5148¹
Glucose 6 Me ether 4230¹
Guloside methyl and compd with CaCl₂ 1494
Mannopyranoside methyl 1222¹, ²
Mannoside methyl 1221¹ 1496¹ 1798¹
Quebrachitol 3893¹ 581¹, ²
- C₇H₁₁O₄: Glucoheptonic acid 918¹
- C₇H₁₁Te₄: Heptanone teluro- 3619¹
- C₇H₁₁Br: Heptade 1 bromo 5322¹
Hexane bromomethyl 3627¹ 3628¹
Pentane bromodimethyl, 4845¹ 5661¹
- C₇H₁₁BrO: Ether β -bromo- α ethylbutyl methyl 2687¹
4 Heptanol 2 bromo- 4530¹
- C₇H₁₁Cl: Hexane 1-chloro-3 methyl 3620¹
- C₇H₁₁ClO: 1 Heptanol 7-chloro- 5395¹
- C₇H₁₁ClO₂: Propionaldehyde, β -chloro-, di Et acetal 2114¹
- C₇H₁₁ClO₃: Hydracrylaldehyde, α -chloro-, di Et acetal, 1223¹
- C₇H₁₁ClNO₂: Compd b.p. 128-30°, from isomylsulfonethylenamide and PCl₅ 1812¹
- C₇H₁₁I: Heptane 1-iodo-, 5322¹
- C₇H₁₁IMg: Heptylmagnesium iodide 3959¹
- C₇H₁₁IS₂: Cycloisopentane 2 methyl, methiodide 1521¹
Selenopane methiodide, 1521¹
- C₇H₁₁N: Cyclohexylamine, *N* methyl, P 3358¹
Heptamethylexamine, and chloroaurate, 1500¹, ²
Pyrrolidine 1, 2, 2-trimethyl, 102¹
- C₇H₁₁NO: Butyric acid, oxime, 5140¹
Caproamide β methyl, 3627¹
Emanthaldehyde oxime, 2115¹
Emanthamide, 2972¹
Epilydnamine, *N*, *N*-diethyl, P 1259¹
3 Pentanone 2, 4 dimethyl, oxime, 5140¹

Piperidineethanol 1513^a
 Phalaldehyde β-dimethylamino- P 2734^a
 Valeramide N-dimethyl 207^a
C₂H₅NO₃ Carbamic acid, diethylthio- Et ester 3962^a
C₂H₅NO₃ Alanine, N-ethyl, Et ester 5143^a
 Butyric acid γ-dimethylamino-, Me ester lactone 1218^a
 4 Morpholinopropanol 4772^a
 Valeramide N-ethyl-β-hydroxy 5605^a
C₂H₅NO₃ Alanine, N-ethyl V β-hydroxyethyl 5143^a
 Carnitine 5664^a
C₂H₅NO₃ Butyraldehyde α-ethyl-α-hydroxy semicarbazone 2113^a
 Malonamide N-amino-2-methyl 1493^a
C₂H₅NO₃ Carbohydroxide n 1 piperidylcarboyl and HCl 4269^a
C₂H₅ See also Heptane
 Hexane, 3-methyl 3927 3f, 4 4846
 Pentane 2,3-dimethyl 4845^a
C₂H₅AgCuN₃ 3925^a
C₂H₅AgN₃ 3925^a
C₂H₅AsClN₃O₃ γ-Carboxy p-tert-methyl ammonium chlorosulfate 1218^a
C₂H₅Br₃ Triethylbromonium iodide C₂H₅Br compd., 28^a
C₂H₅CINO₃ Isomyl isonit chloride ethyl iodide 1812^a
C₂H₅J₃ Triethylsulfonium iodide C₂H₅I compd., 28^a
C₂H₅K₃ 4846
C₂H₅N₃O₃ Lysoine N-methyl salt 7^a
C₂H₅N₃ Pentaamine di HCl 2662^a
C₂H₅N₃O₃ Pseudourea γ-pentamethylene (thio HCl 5605^a
C₂H₅O (See also Heptyl alcohol)
 Ethyl butylsulfopropyl 2113^a
 — tert-butylpropyl 911^a
 — isonitropropyl 1113^a
 4 Heptanol 3567^a
 Hexanol, methyl 36 6f 16 4 4845
 Pentanol 4-methyl 4845 5603^a
 — 3-ethyl 1113^a 3645^a
 1 Propanol, 1,2,2-tetracetal 7 4^a
C₂H₅O₃ Acetone 4,5,6-trichloro 4
 3,7 Heptanediol 1798^a
 1 Pentanol, 5-ethoxy 4
C₂H₅O₃ 1 Butanol (C₂H₅)₃ methyl ester 1812^a
C₂H₅O₃ Orthoformic acid triester 1798^a
 1,2 Propanediol 4-tutoxy 684^a
 2 Propanol 3,3-bisethoxy 115^a
C₂H₅O₃ Butylamine 1-sulfate 101^a
C₂H₅O Glucoside of 1,5-acetal 2113^a
 1,3 Propanediol 2,3-methoxymethyl 1601^a
C₂H₅O₃ See also
C₂H₅Br₃ Hg₂ mercaptan 7^a
 Hexylmercaptan 7^a
C₂H₅N₃ Hexylamine 1113^a 101 101 101
 Hexylamine 1113 16
C₂H₅NO₃ Butan-1-yl dimethylamino 3-methyl 1812^a
 2 Hexanol 1-ethylamino-1-methyl and IR 684^a
 1 Hexanol 1-methylamino 1813^a
 1 Hexanol 1-ethylamino and IR 115^a
C₂H₅NO₃ 1-Hexanesulfonamide N-ethyl 1
C₂H₅NO₃ 1-Hexanesulfonamide N-ethyl 1-methyl 1812^a

C₂H₅NO₃ (See also Choline, acetyl)
 γ-Carboxypropyltrimethylammonium hydroxide 1218^a
C₂H₅AsHgI₃ Triethylmethylarsonium iodide, HgI₂ derivative 1452^a
C₂H₅AsI₃ Triethylmethylarsonium iodide, 1452^a
C₂H₅JNO₃ γ-Methoxypropyltrimethyl ammonium iodide 1814^a
C₂H₅N₃ Putrescine N,N'-trimethyl, and chlorosulfate 2691^a
C₂H₅N₃O₃ Propanol 1-amino-3-dimethylamino- P 1 5^a P 1336^a
C₂H₅N₃O Propionaldehyde β-hydroxy-, diacetal 437^a
C₂H₅Co₂N₃O₃ 5108
C₂H₅Cl₃Co₂N₃ Cobalt thiourea chloride, 508^a
C₂H₅Cl₃N₃Ni₃ Nickel thiourea chloride, 508^a
C₂I₃O₃ Benzoic acid 2,3,4,5-tetraiodo-6-sulfonamide 511^a
C₂KNO₃ 322^a + H₂O 650^a
C₂Ag₂Mo₂ γ-ter-methylbenzoate 2355^a
C₂Ag₂Mo₂ γ-ter-methylbenzoate, 2355^a
C₂Br₃N₃O₃ Benzotriazole 4,5,6-tribromo-3-nitro-1-trimethylammonium 2129^a
C₂Cu₂Mo₂ γ-ter-methylbenzoate 2355^a
C₂Br₃N₃O₃ Benzotriazole 4,5,6-tribromo-1-dimethylammonium-3-nitro-2129^a
C₂H₅Br₃O₃ Phthalic anhydride 3,4-dibromo, 915^a
C₂H₅Cl₃N₃O₃ 1-Phthalazone, 3,6,7,8-tetra chloro 4-hydroxy 4001 4002^a
C₂H₅Br₃NO₃ Isatin dibromo-700^a 060^a
C₂H₅Br₃NO₃ Aretamide hexabromo-2709^a
C₂H₅Cl₃NO₃ Isatin 4,6-dichloro- P 1845^a
C₂H₅Cl₃O₃ Thionaphthol, 4,5,6-trichloro- P 504^a
C₂H₅Br₃O₃ Phthalic anhydride 3-nitro-1811^a
C₂H₅N₃O₃ Thioacetic acid nitro-p-phenylene ester 2691^a
C₂H₅Br₃NO₃ Isatin 6-bromo-700^a
C₂H₅Br₃NO₃ Terephthalic acid 2-bromo-5-nitro P 97^a
C₂H₅Br₃O₃ Phthalic acid 3,4-dibromo- 915^a
C₂H₅Br₃ 2,3-Dithiophene 5,5-dibromo-, 293^a
C₂H₅Br₃NO₃ Quinone 2-acetamido- tri Br deriv 1 5^a
 Quinone acetamido 3,5,6-tribromo-, 1 5^a
C₂H₅Br₃O₃ Acetophenone α,α,3,3-tetrabromo-4-hydroxy 501^a
C₂H₅Br₃NO₃ Acetanilide pentabromo-2709^a
C₂H₅Br₃NO₃ Cyclohexanedione 2-acetamido-3,4,5,6-pentabromo-1 2129^a
C₂H₅CINO₃ Phthalimide 4-chloro-1511^a
C₂H₅CINO₃ Terephthalic acid 2-chloro-5-nitro-, P 97^a
C₂H₅Cl₃N₃ Quinazoline 4-dichloro-5608^a
 Quinazoline 2-dichloro-3001^a
C₂H₅Cl₃O₃ Thiazole 2-dichloro-2136^a
 Thiazolechloride 934^a 2136^a
C₂H₅Cl₃O₃ Terephthalic acid 2,5-dichloro-, P 97^a
C₂H₅Cl₃NO₃ Carboxylic acid p-nitrophenylthiochloromethyl ester 1228^a
C₂H₅Cl₃O₃ Carboxylic acid p-chlorophenylthiochloromethyl ester 1228^a
C₂H₅NO₃ Phthalimide 4-nitro-, 1511^a
C₂H₅N₃ Benzotriazole p-thioaceto-, 2691^a
C₂H₅N₃ Thioacetic acid p-phenylene ester, 2691^a

- C₈H₈N₂NaO₃ 1(2) Phthalazone, 4 hydroxymetro-,
 Na deriv, 4001¹
 C₈H₈O₃ Phthalic anhydride, thio-, 938¹
 C₈H₈O₃ See *Phthalic anhydride*
 C₈H₈AgN₂O₃ 1(2) Phthalazone, 4 hydroxy Ag
 deriv, 4001¹
 C₈H₈Br Benzene, (bromoethynyl) 73¹
 C₈H₈BrClO₃ Vanillin, 5-bromo-2,6-dichloro
 95¹
 C₈H₈BrClO Phenetole, 4-bromo-2,3,5,6-tetra-
 chloro-, 1817¹
 C₈H₈BrO₂ Phthalide 4-bromo- 3325¹
 C₈H₈Br₂N Indole, 5,6-dibromo-, 700¹
 C₈H₈Br₂NO₂ Quinone, 5 acetamido 2,3 di-
 bromo-, 2128¹, 2129¹
 C₈H₈Br₂NO₂ Benzaldehyde, 2,4-dibromo-3-
 methoxy-6-nitro-, 4540¹
 Isatoic acid, dibromo-, 700¹
 C₈H₈Br₂N₂O₃ Acetamide, 3,5-dibromo-4 by-
 droxy 2,6-dinitro- 2128¹
 C₈H₈Br₂O Acetophenone, α-tribromo- 71¹
 C₈H₈Br₂NO₂ Acetamide tetrabromo-4
 hydroxy 2709¹
 C₈H₈Br₂O Phenetole 2,3,4,5,6-pentabromo-
 1815¹
 C₈H₈Cl₂O₂ Phenol, 2-chloro-4,6-diortho-
 acetate 3978¹
 C₈H₈Cl₂NO 4(3) Quinoxalene 2-chloro-(7)
 5899¹
 C₈H₈Cl₂NO₂ o-Tolunitrile, α-chloro-5-nitro-
 3644¹
 C₈H₈Cl₂O₂ Phthalide chloro- 3325¹
 C₈H₈Cl₂O₂ Phthalide chloro-2-hydroxy, 1231¹
 C₈H₈Cl₂O₂ Terephthalic acid 2-chloro- P 970¹
 C₈H₈Cl₂Hg₂N Indole 2,3 bis(chloromercuri),
 701¹
 C₈H₈Cl₂IO₂ Phenol, 2,4-dichloro-6-iodo-, ac-
 etate 1501¹
 C₈H₈Cl₂O Acetophenone α-trichloro- 5711¹
 C₈H₈Cl₂O₂ Acetophenone, α-trichloro-β-
 hydroxy, 935¹
 C₈H₈Cl₂O₃ Acetic acid, (2,3,4-trichlorophenyl
 mercapto) P 5040¹
 C₈H₈Cl₂O₂ Vanillin, 2,5,6-trichloro-, 95¹
 C₈H₈Cl₂IO Phenetole, 2,3,5,6-tetrachloro-4-
 iodo-, 1817¹
 C₈H₈Cl₂IO₂ Phenol, 2,4-dichloro-6-iodo- di-
 chloride, acetate, 1504¹
 C₈H₈Cl₂NO Acetamide 2,3,5,6-tetrachloro-4-
 hydroxy 5153¹
 C₈H₈Cl₂O Phenetole 2,3,4,5,6-pentachloro-,
 1817¹
 C₈H₈Cl₂O₃ 1,3,5-Oxadithiane 3,3-dioxide-4-
 carboxylic acid, 4,6-dichloro-6-trichloro-
 methyl 2-dichloromethylene Et ester
 3619¹
 C₈H₈IO₂ Phthalide, 4-iodo- 3325¹
 C₈H₈I₂N Indole, 2,3-diortho- 701¹
 C₈H₈IO₂ (See also *Isatin*)
 Oxim de, N phenyl 2418¹
 Phthalimide, 2434¹
 C₈H₈NO₂ 2,3 Phenomorpholisedione, 3340¹
 Phthalimide, hydroxy 1511¹, 3993¹
 C₈H₈NO₂ 3-Salicylic acid 5-thiocyano-, P 1258¹
 C₈H₈NO₂ Piperonylic acid, 6-nitro-, 3324¹
 Pyridinecarboxylic acid, 3617¹
 C₈H₈N₂NaO₃ 1(2) Phthalazone, 4 hydroxy, Na
 deriv 4001¹
 C₈H₈N₂O₃ 1(2) Phthalazone, 4 hydroxymetro-
 4001¹
 Phthalhydrazide 6-nitro-, 4001¹
 Phthalimide, Δ-amino 3-nitro-, 1511¹
- C₈H₈N₂O₃ Thiocyanic acid 3,5-dinitro-*p*-
 anisyl ester, 2700¹
 C₈H₈N₂S Thiocyanic acid (4-amino-*m*-
 phenylene) ester P 1258¹
 C₈H₈ Benzene ethynyl 71¹, 2887¹, 5830¹
 C₈H₈BrClN₂S Benzothiazole, 3-bromo-5-chloro-
 1-methylamino-, 4681¹
 C₈H₈BrClO₂ Vanillin bromochloro- 94¹
 C₈H₈BrFN₂O₂ *m*-Xylene 5-bromo-4-fluoro-2,6-
 dinitro- 2711¹
 C₈H₈BrIO₂ Phenol, 4-bromo-2-iodo- acetate
 3978¹
 C₈H₈BrN₂ α-Tolunitrile *p*-bromo- 2611¹
 C₈H₈BrNO₂ Styrene *m*-bromo-*p*-nitro- 4552¹
 C₈H₈BrNO₂ Quinone 2-acetamido-6-bromo-
 2128¹
 C₈H₈BrN₂S Isothiocyanic acid, 3-bromo-*p*-tolyl
 ester 104¹
 C₈H₈BrN₂O 1,2,3-Benzotriazole 1-acetyl 5-
 bromo- 4265¹
 C₈H₈Br₂N₂O₂ Acetamide, 2-bromo-3-hydroxy
 4,6-dinitro- 2128¹
 Phenol, 3-amino-6-bromo-2,4-dinitro-, Ac
 deriv 2129¹
 C₈H₈Br₂N₂O 6-Benzimidazolol, 5,7-dibromo-2-
 methyl-, 2129¹
 C₈H₈Br₂N₂O₂ Acetamide 2,4-dibromo 3 by-
 droxy 6-nitro 2128¹
 C₈H₈Br₂O Amsaldehyde 3,5-dibromo-2-
 hydroxy 287¹
 Benzaldehyde 3,5-dibromo-4-hydroxy 2-
 methoxy 287¹
 C₈H₈BrClN₂S Benzothiazole 3-bromo-5-chloro-
 1-methylamino-, dibromide, 4681¹
 C₈H₈BrNO₂ Acetamide 2,4,6-tribromo-, P
 973¹
 C₈H₈Br₂N₂O₂ Acetamide, tribromo-2-hydroxy,
 2709¹
 C₈H₈Br₂NO₂ Phenetole, 3,4,5-tribromo-2-nitro-,
 1817¹
 C₈H₈Cl₂IO₂ Phenol, 4-chloro-2-iodo-, acetate,
 1504¹
 C₈H₈Cl₂N₂ Tolunitrile, chloro 60¹, 2611¹
 C₈H₈Cl₂N₂O Piperonylideneimine N-chloro-,
 94¹
 C₈H₈Cl₂NO₂ α-Toluenesulfonyl chloride o-
 cyano 3644¹
 C₈H₈Cl₂NO₂ Vanillin chloro-2-nitro 94¹
 C₈H₈Cl₂N₂S Benzothiazole chloromethyl 104¹,
 931¹, P 3016¹, 4265¹
 o-Tolunitrile 4-chloro-6-mercapto- P 1284¹
 C₈H₈Cl₂N₂S Benzothiazole 1-aminodichloro 3-
 methyl P 968¹
 C₈H₈Cl₂O Acetophenone 2,5-dichloro- 4860¹
 C₈H₈Cl₂O₂ Vanillin dichloro 94¹
 C₈H₈Cl₂NO Ibenol *p* (β-trichloro-*m*-imino
 ethyl) HCl 935¹
 C₈H₈Cl₂NO₂ Vanillin, 2,5,6-trichloro-, oxime
 95¹
 C₈H₈Cl₂NO₂ Xylene tetrachloro-, P 2443¹
 C₈H₈Cl₂O Phenetole 2,3,5,6-tetrachloro-
 1817¹
 C₈H₈Cl₂O₂ 1,3,5-Oxadithiane 3,3-dioxide 4-
 carboxylic acid 2,6-bis(dichloro
 methylene), Et ester 3619¹
 C₈H₈Cl₂O₂ 1,3,5-Oxadithiane 3,3-dioxide 4-
 carboxylic acid, 6-chloro 6-trichloro
 methyl 2-dichloromethylene, Et ester
 3619¹
 C₈H₈HgO₂ 2,5-Anhydro 5-hydroxymercuro 2-
 hydroxy 3-methoxybenzaldehyde 287¹
 C₈H₈N₂ 1,5-Pyridopyridine P 716¹
 Quinoxaline, 957¹

- C₈H₈IN₂S Benzothiazole, 5-iodo-1 methyl amino- 4881¹
- C₈H₈IO₂ Phenol, o-iodo- acetate 1504¹
- C₈H₈IO₂ Acetic acid [o(and m) iodophenoxy], 930¹
- C₈H₈N See *Indole Tolunitrile*
- C₈H₈NO Benzoxazole, 1 methyl, and HCl, 1249¹
- Indoxy), 1566¹ P 1676¹
- Mandelonitrile 4868¹ 5412¹
- Oxindole 293¹
- C₈H₈NO₂ Isothiocyanic acid β anisyl ester 4242¹
- Thiocyanic acid, β anisyl ester 2⁷⁰⁰ cresyl ester, P 3356¹
- C₈H₈NO₂ Oxindole, 3 hydroxy, 503
- 3 Phenomorpholine 3348¹
- Phthalide, amino, 3325¹
- C₈H₈NO₂ Acetophenone, m nitro- 4867¹
- C₈H₈NO₂S Saccharin, 1 methyl 929
- α Toluene sulfonic acid, o-cyano Na salt 3644¹
- C₈H₈NO₂ Benzaldehyde 2 methoxy 5-nitro- 1230¹
- Isocinchomeronic acid methyl 3651¹ 3652
- Lutidinic acid 3 methyl, 3652¹
- Quinolonic acid 6-methyl (?) 3651¹
- C₈H₈NO₂S 5-Pyrroledicarboxylic acid 3 formyl 4 methyl 962¹
- C₈H₈NO₂S Salicylic acid, nitrosulfo Me ester and salts 3637¹
- C₈H₈NS Isothiocyanic acid, tolyl ester 1506¹ 4795¹
- C₈H₈N₂ 2,4 Pyrroledinitrile 3 5-dimethyl 698¹
- C₈H₈N₂O Furazan 3-amino-4 phenyl 3337¹
- 1 3,4 Oxadiazole 2-amino 5-phenyl 498¹
- C₈H₈N₂OS 1 3 4 Thiodiazol 2(1)-one 3-anilino- 1504¹ 3634¹
- C₈H₈N₂O₂ 1(2) Phthalazone amino-4 hydroxy 4002¹
- C₈H₈N₂O₂S Benzothiazole 1 methylamino 5 nitro- 104¹
- Benzothiazolone 1-amino-2 methyl 5 nitro- 104¹
- C₈H₈N₂O₂ Phthalic acid, 3 nitro, monohydrate salts, 1511¹
- C₈H₈N₂O₂ Phenetole, 2 4 6 trinitro, 2⁷⁰⁶¹
- 3 5 Xylenol 2 4 6-trinitro, 930¹
- C₈H₈N₂O₂ Isoxanthine 8 allyl 8 nitroso- 3966¹
- C₈H₈ See *Styrene*
- C₈H₈BrClIO Phenetole β bromo- β iodo- di chloride 4245¹
- C₈H₈BrF m-Xylene 5-bromo-4 fluoro- 2711¹
- C₈H₈BrIO Phenetole bromo-iodo- 3978¹ 4245¹
- C₈H₈BrNO Acetophenone bromo oxime 3663¹
- C₈H₈BrNO₂ Anthranilic acid 4 bromo, Me ester 1522¹
- Benzene 1 (β bromoethyl)-4 nitro, 4240¹
- β Toluene and 5-amino-2 bromo- 1502¹
- C₈H₈BrNO₂ Benzene 1 bromo-2 4-dimethoxy 5 nitro- 2985¹
- C₈H₈BrNO₂Xylene 4 5-dibromo- 604¹
- C₈H₈Br₂O Phenetole dibromo-, 1817¹ 2706¹
- Xylenol, dibromo- P 4012¹
- C₈H₈Br₂O₂ Benzene 1,4-dibromo-2,5-di methoxy, 4537¹
- Resorcinol, 4 8 dibromo 2,5 dimethyl 5413¹
- , 2,4 dibromo-6 ethyl, 504¹
- C₈H₈Br₂O₂ 1 4 1 4 Cyclohexadieneol 2 3 5,6 tetrabromo-1 4-dimethyl 4539¹
- C₈H₈CeNaO₂ + 8H₂O Sodium cerotartrate, 1750¹
- C₈H₈ClIO Phenetole, 2 chloro 4 iodo, 4245¹
- C₈H₈ClIN Pyridine, 2-chloro 6 7 dihydro- 4863¹
- C₈H₈ClINO Acetamide, N chloro, 2699¹ 3220¹, 4533¹ 4534¹
- Anisalamine N-chloro-, 94¹
- β Toluamide N-chloro- 89¹
- C₈H₈ClINOS Acetamide 5-chloro 2 mercapto-, 931¹
- C₈H₈ClINO₂ Acetamide, chlorohydroxy, 1505¹, 3346¹
- Mandelamide chloro, 3637¹
- m Xylene chloronitro P 973¹
- C₈H₈ClINO₂ Phenetole 3-chloro 5 nitro, 2707¹
- Vanillin 2 aminochloro- 94¹
- chloro- oxime, 94¹
- C₈H₈ClINO₂S Sulfamic acid N chloroacetyl 4288¹
- C₈H₈ClINS Benzothiazoline 4-chloro-1 methyl 4265¹
- C₈H₈Cl₂ β Xylene α α dichloro 3973¹ 4456¹
- C₈H₈Cl₂O Phenetole 9 4 dichloro- 2706¹
- C₈H₈Cl₂O₂ β Cresol, 2 5-dichloro- α methoxy, 5668¹
- Resorcinol dichloroethyl 504¹
- C₈H₈Cl₂O₂S 2 4 Xylenesulfonic acid dichloro P 244¹
- C₈H₈Cl₂O₂S Phenoldisulfonyl chloride di methyl 691¹ 1 1
- C₈H₈Cl₂NO Ketone 3 5-dimethyl 2 pyrrol tri chloromethyl 3008¹
- C₈H₈Cl₂NO₂ Ketone 5 hydroxy-4 methyl 2 tri chloromethyl 3 pyrrol methyl 4009¹
- C₈H₈HgO₂ Benzene (acetoxymercuri) P 520¹
- C₈H₈HgO₂S Benzoic acid α (methylmercuri mercapto) 1821¹ 4967¹
- C₈H₈INO₂ β -Xylene, α iodo α nitro- 925¹
- C₈H₈La₂N₂O₁₀ + xH₂O Ammonium lanthanum oxalate 2658¹
- C₈H₈N₂ Indole 6-amino, 700¹
- α Tolunitrile β amino- P 3359¹
- C₈H₈N₂O Benzoxazole amino-1 methyl and HCl 1249¹
- Glyoxal, phenyl, hydrazone(?), 5428¹
- Nicotinonitrile 1,2-dihydro-2 keto 4,6-di methyl 1829¹
- 2 Pyrroledialdehyde, 4 cyano 3 5 dimethyl, 699¹
- C₈H₈N₂O₂ Glyoxime phenyl and HCl, 1489¹
- Glyoxylamide oxime 2721¹
- 2 Pyrroledicarboxylic acid 4-cyano-3,5-dimethyl 698¹
- Pyrrol[2 3 β] 1,2-oxazino 4(1)-one, 2,7-di-methyl 3008
- Terephthalaldehyde, 2,5-diamino, P 2859¹
- C₈H₈N₂O₂ Benzaldehyde, β nitro, oxime N Me ether, 5673¹
- Glyoxime (pyridylcarbonyl), 2099¹ 3000¹
- C₈H₈N₂O₂ Acetamide 2 hydroxyntro-, 2129¹
- Carbanilic acid β nitro- Me ester 2686¹
- 1,2 Xylene, 4,6-dinitro- 857¹
- C₈H₈N₂O₂ Acetamide 2 5-dihydroxy-4-nitro-, 2129¹
- Phenetole, 2,4 dinitro- 491¹ 2984¹
- 3 5 Xylenol, dinitro, 930¹
- C₈H₈N₂O₂S 2 4 Xylenesulfonic acid, 6 hydroxy- 3 5-dinitro, 930¹
- C₈H₈N₂S Benzothiazole, 1 aminomethyl, 103¹, P 968¹
- Thiocyanic acid, aminotolyl ester, P 3356¹

- C₈H₈N₂O Benzoxazole 1 guando-, 3089^a
 1,3,4 Oxadiazole 2 hydrazino 5 phenyl, 498^b
- C₈H₈N₂O₃ 3,2; Tetrazinone, 1,4-dihydro-6-mercapto 1 phenyl 3634^a
- C₈H₈N₂O₄ 1 3 Benzotriazole 1,6-dimethyl 4 nitro 12 0^a
 Isoxanthone 1 allyl 3966^a
- C₈H₈N₂O₅ 1 3 acid 9 allyl 8-thio-, 3966^a
- C₈H₈N₂O₆ 3 Benzotriazole, 1,6-dimethyl 5-nitro 3-oxide 4266^a
- C₈H₈N₂O₇ Isoxanthone 8-(carboxymethylmercapto) 9 methyl 3966^a
- C₈H₈N₂O₈ Anilur V-dimethyl 2,4,5-tri-nitro- 4524^a
- C₈H₈N₂S Benzothiazole 1 guando-, 3089^a
- C₈H₈N₂NiO₄ Butyramide α β-d keto- di-oxime Ni deriv 3621^a
- C₈H₈O (See also Acetophenone Toluinaldehyde)
 Ether phenyl vinyl P 302^a P 4284^a
 Ethylene oxide phenyl 1241^a
 Phenol o-vinyl 1224
- C₈H₈O₂ (See also Anisaldehyde Toluic acid)
 Acetic acid Ph ester 3625^a
 Acetophenone, α hydroxy 1484^a
 Benzaldehyde methoxy 1526^a 5426
 Benzoic acid Me ester, P 303^a 3311^a
 Δ²-2 Butenone 4 (2 fur) 1, 1243^a, 5424^a
- C₈H₈O₃ (See also Vanillic acid Vanillin)
 Acetophenone, 2,4-dihydroxy 515^a 4863^a
 Anisaldehyde 2 hydroxy 287^a 1507^a
 Anisic acid 1161^a 5412^a
 Benzaldehyde 4 hydroxy 2 methoxy 1507^a
 Benzoic acid, β hydroxy Me ester 1509^a
 — o-methoxy 1161^a 3376^a
 2,6-Cresotic acid 3684^a
 Isovanillin 287 4277^a 5156^a
 o-Resorcylic aldehyde 4-methyl 288^a
 Salicylaldehyde 5-methoxy 287^a
 Salicylic acid Me ester 1761^a 3326^a P 5179^a
 α Toluic acid β hydroxy 503^a
 o Vanillin 287^a
- C₈H₈O₄ Dehydroacetic acid 2694^a 4521^a
 Gentisic acid 4 methoxy 707^a 3980^a
 Homogentisic acid 531^a 4610
 Isovanillic acid 5156^a
 Phloracetophenone 5411^a
 Quinone dimethoxy 1229^a 5405^a
 β Resorcylic aldehyde 5-methoxy 3980^a 4250^a
 β Resorcylic acid Me ester 3663^a
 Vanillic acid 1584^a 5156^a
- C₈H₈O₅ Benzoic acid α-(methylsulfonyl), 4550^a
- C₈H₈O₆ Catic acid methyl ester 4436^a
- C₈H₈As₂INO₄ + H₂O m Arsamide acid, N acetyl 8 iodo- 92^a
- C₈H₈As₂NO₄ 5-Benzimidazolecarboxylic acid 2,3-dihydro-2 keto-1 methyl, P 714^a P 1840^a
 Carbanilic acid, 3 arseno 2 hydroxy, P 1930^a
- C₈H₈As₂O₄ Benzenearsonic acid, β acetyl, P 3764^a
- C₈H₈As₂NO₄ Acetic acid, (β-arsenophenylarseno), HCl, P 2155^a
- C₈H₈As₂NO₄ Acetic acid, (3-amino-4-hydroxyphenylarseno) (?) P 2155^a
- C₈H₈As₂Br₂ 1-benethyldichloride, 4220^a
- C₈H₈Br₂ Benzene, (β-bromoethyl), 4240^a
 o-Xylene α-bromo-, 5154^a
- C₈H₈BrClNO₄ Ketone, 4 bromo-3,5-dimethyl 2-pyrryl chloromethyl, 3009^a
- C₈H₈BrMgO p-Methoxybenzylmagnesium bromide, 2126^a
- C₈H₈BrN₂O Acetanilide, 2-amino-4-bromo-, and HCl, 4265^a
- C₈H₈BrN₂O₂ p-Phenetidine 2-bromo-6-nitro-, 1817^a
- C₈H₈BrO Phenetole, β-bromo-, 2706^a
 Xylenol, bromo-, P 4012^a
- C₈H₈BrO₂ Benzene, 1-bromo-2,5-dimethoxy, 4537^a
- C₈H₈BrO₃ α,α'-m Xylenediol, 5-bromo-2-hydroxy, P 974^a
- C₈H₈BrO₄ Benzenesulfonic acid, 2-bromo-4,5-dimethoxy, 2724^a
 m-Toluenesulfonic acid, 5-bromo-4-hydroxy, Me ester 3322^a
- C₈H₈BrNO₄ Phenetidide, dibromo-, 286^a, 286^a, 1817^a and HCl, 286^a
- C₈H₈Cl₂O₄ + 2H₂O Cerotartaric acid, 1750^a
- C₈H₈Cl₂ m Xylene, 2-chloro-, P 2441^a
- C₈H₈ClH₂g p-Xylene, 2 (chloromercuri), 927^a
- C₈H₈ClMgO p-Methoxybenzylmagnesium chloride, 2126^a
- C₈H₈ClN₂O Ethoxybenzenediazomum chloride, 4797^a
- C₈H₈ClN₂O₂ 2-Pyridinecarbamie acid, 4-chloro-, Et ester, 2429^a
- C₈H₈ClN₂O₃ p-Phenetidine, 3-chloro-2-nitro-, 2707^a
- C₈H₈ClN₂S Urea, α (β-chlorophenyl) β methyl thio-, 104^a
- C₈H₈ClN₂S₂ See Methylene red
- C₈H₈ClN₂O₄ 1,2,3-Benzotriazole 1-methyl 6-nitro-, methochloride, 1250^a
- C₈H₈ClO Phenetole p-chloro-, 2706^a
- C₈H₈ClO₂ Benzyl alcohol, 5-chloro-2-hydroxy 3-methyl, P 974^a
- C₈H₈ClO₃ α α m Xylenediol, 5-chloro-2-hydroxy, P 974^a
- C₈H₈ClO₄ 1-Phenol 2-sulfonyl chloride, 4,6-dimethyl 691^a
 2,4-Xylenesulfonic acid 3-chloro-, P 2441^a
- C₈H₈ClIO Phenetole, p-iodo-, dichloride, 4215^a
- C₈H₈Cl₂N₂ 2,4-Xyldine, 3,5-dichloro-, P 973^a
- C₈H₈Cl₂NO₃ 2,4-Xylenesulfonamide, dichloro-, P 2441^a
- C₈H₈Cl₂P Phosphane, dichloro-2,5-xylyl, 2702^a
- C₈H₈Cl₂N₂ Pyrimidine, 5-sec butyl 2,4,6-tri-chloro-, 2697^a
- C₈H₈FN₂S Urea α (β-fluorophenyl) β methyl thio-, 4831^a
- C₈H₈FO₃S Xylenesulfonyl fluoride, hydroxy, 284^a
- C₈H₈IN₂O₂ 2-Pyridinecarbamie acid, 4-iodo-, Et ester, 2429^a
- C₈H₈N Aniline, o-vinyl, 4866^a
 Phenethylidenamine, 1810^a
 Pyridine, 6,7-dihydro-, 4883^a
 Toluidine, and HCl, 4797^a
- C₈H₈NO (See also Acetanilide)
 Acetophenone, oxime 1506^a, 3329^a
 —, amine-, 2445^a, 4432^a
 Pyridine 2-ol 6,7-dihydro-, 4883^a
 8(7) Pyrricolone, 5,6-dihydro-, 1520^a
 o-Toluamide 2134^a
- C₈H₈NO₂ Acetanilide, hydroxy, 2709^a
 Acetophenone, o-hydroxy, oxime, 3500^a
 Anisaldehyde, oxime, 1506^a
 Anthranic acid, Me ester, 3620^a
 Glycine β phenyl, 828^a alkali metal salt, 3099^a

- Toluic acid, amino-, 503⁷, 1501⁸, 1502¹ 5816⁹
- p*-Toluenesulfonamide, O-methylsulfonamide, 933⁸
- C₈H₉NO₃ Compd., m 53⁸, from Ph¹NH₂ and 2 bromoethanesulfonfyl chloride, 3404¹
- C₈H₉NO₃ Acetic acid, (o-aminophenoxy) salts 3346¹
- Acetophenone, 2,4 dihydroxy, oxime, 1506⁸
- Anisole, 2 methyl 5-nitro-, 2134¹, 4215²
- Cresotic acid, amino-, P 471¹
- Nicotinic acid, 6-hydroxy, Et ester 4285²
- Phenethyl alcohol, o-nitro-, 4866¹
- Phenetole, *p*-nitro-, 2706¹
- Phenol, 2 ethyl 4 nitro-, 5410¹
- Pyrolocarboxylic acid, acetyl methyl 300⁷ 3008¹
- 2 Pyroloxyloxylic acid, 3,3-dimethyl 3008¹
- Resacetophenone, oxime, 3590¹
- α Resorcyaldehyde, 4 methyl oxime 288¹
- Toluic acid, aminohydroxy 503 3325²
- o*-Vanillin, oxime, 3590¹
- Xylenol, nitro-, 930¹, 2424¹
- C₈H₉NO₃ Benzenesulfonamide *o*-formyl N methyl, 928¹
- C₈H₉NO₃ Gallacetophenone oxime 3590¹
- C₈H₉NO₃ Benzenesulfonic acid, nitro- Et ester, 2703¹
- C₈H₉NO₃ 3-Benzothiazolethiol, 3 (amino methyl) 5-dioxide 39⁷8²
- C₈H₉NO₃ Compd., m 96 3⁷ from nitration and acetylation of Me furate, 1825²
- C₈H₉NS α -Toluenamide thio-, 1810⁸
- C₈H₉N₂O₅ 5-Benzimidazolethioic acid 2 3 dihydro-2 keto-1 methyl, P 4295²
- C₈H₉N₂O 2 Pyrolocarboxylic acid 4 cyano 3 5 dimethyl oxime 699¹
- Pyrolo[2,3-*b*]pyridazine-4(5*b*)-one 2 7-di methyl, 3008¹
- C₈H₉N₂O₅ Semicarbazide 1 benzoylthio- 498¹
- C₈H₉N₂O₅ Glyoxylobydrinamide α -phenylsulfonamide 1490¹
- Isomictinamide λ (carbamylmethyl) 3000¹
- Nicotinamide, λ (carbamylmethyl) 2999¹
- Pyocyanamide λ (carbamylmethyl) 2999¹
- Pyrolo[3,4-*b*]pyridazine 1 4 dione 2 3-dihydro-5 7-dimethyl, 1826²
- Pyruvic acid 3 pyridylhydrazones, 3344¹
- C₈H₉N₂O₄ Aniline, N, N-dimethyl 3 4-dinitro- 4534¹
- Butyrominole α , β -diketo-, dioxime di Ac deriv 3621¹
- C₈H₉N₂ Benzimidazole 2 guanido-, 3089⁸
- C₈H₉N₂O₄ Isocaffeine, 8-nitroso- 3966¹
- C₈H₉ (See also Benzene, ethyl Xylene)
- 1 Hexen 5-one, 4-vinyl (?) 3309¹
- C₈H₉As₂NO₄ Acetarsone 140⁸, 253¹, 1⁶¹ 1902¹
- Givaine N (α -arsonophenyl) 4863⁸
- C₈H₉As₂NO₄ Carbamic acid 5-arsono-2 hydroxy, P 1950⁸
- C₈H₉As₂N₂NaO₄ See Tryparsamide
- C₈H₉BNQ₂ Boric acid, (m acetamidophenyl) 1227¹
- C₈H₉BaCo₂O₈S₂ + 5H₂O Barium salt of cobalt complex of mercaptoacetic acid, 77¹
- C₈H₉BrN Phenethylamine, *m* bromo-, salts 4532¹
- 3,4 Xylidine, 6-bromo-, 694⁸
- C₈H₉BrNO α -Amididine, 4 bromo 5-methyl, 1225¹
- C₈H₉BrNO₃ Benzenesulfonamide, 2 bromo-4,5-dimethyl, 2724¹
- C₈H₉Br₂S₂ Benzene, *p* bis(methylmercapto) tetrahydrate 5393
- C₈H₉ClN Phenethylamine *p*-chloro 2194¹
- Pyridine 6-chloro-2 3 4 trimethyl 3652¹
- 2 4 Xylidine 3 and 5 chloro-, P 6⁷3¹
- C₈H₉ClNO *o*-Phenetidine 4-chloro P 1844¹ P 3666¹
- C₈H₉ClNO₂ 2 4-Xylenesulfonamide 7-chloro P 2441¹
- C₈H₉ClNO₂ Pyrimidine, 2 (α -chloroacetamidol) 4,5-dimethyl 1254¹
- C₈H₉Cl₂N₂ Pyrimidine 2 2 4 6-tetrachloro-5 5-dimethyl 2 5-dihydro- 269⁷4
- C₈H₉Co₂K₂O₈S₂ + 5H₂O Potassium salt of cobalt complex of mercaptoacetic acid 77¹
- C₈H₉FN Benzylamine fluoro- V methyl and HCl 925¹ 926¹
- C₈H₉HgO₂S₂ Benzenesulfonic acid *p* ethyl mercurimercapto) 1821¹ 490¹
- C₈H₉INO 2(1) Pyridone 5 iodo-1 isopropyl 953¹
- 2(1) Pyridone 5 iodo-1 propyl, and HCl 953¹
- C₈H₉NO₂ Acetanilide α -amino- 1504¹
- Aniline λ V dimethyl *p* nitroso 865 6016¹
- α Toluamidine *p*-hydroxy HCl P 5512¹
- α Toluic acid hydrazide 1821¹
- p* Toluidine V methyl V nitroso- 2365¹
- Xylidine nitroso-, P 3350¹ P 4135¹
- C₈H₉N₂O₃ Urea *p* amylthio- 4242¹
- Urea (*p*-methylmercaptophenyl), 936¹
- C₈H₉N₂O₄ Acetanilide, 4 amino 2 hydroxy, (HCl), 1249¹
- Aniline N N dimethyl 3(4) 4 nitro 4534¹
- Anisaldehyde 3 amino- oxime 3323¹
- Benzene α -hydroxy- Me ester 2697¹
- Nicotinamide, 1 2 dihydro 2 keto 4 6 dimethyl, 1529¹
- Phenethylamine *p* nitro- 2194¹ and salts 4532¹
- 2 4 Quinoxalinediol, 1 2 3 4 tetrahydro 1504¹
- C₈H₉N₂O₃ Carbamic acid N [(5 keto + 3 methyl) 2(5) pyridyl(methyl) methyl, Me ester, 10¹ 2(1) Pyridone, 1 isopropyl-5-nitro-, 9a3¹ - 5-nitro-1 propyl, 953¹
- 3 Pyrolocarboxylic acid, 2 acetyl 5-methyl oxime, 3008¹
- C₈H₉N₂O₃ Sulfamic acid, (*p* acetamidophenyl) Na salt, 2703¹
- Sulfamic acid V glycol, 4288¹
- C₈H₉N₂S₂ Benzothiazoline, 1 amino-2 methyl, P 968¹
- C₈H₉N₂S₂ Urea (*p*-methylmercaptophenyl) thio-, 936¹
- C₈H₉N₂ 1,2 3-Benzotriazole, 4 amino-1,6-di methyl 1200¹
- C₈H₉N₂O 1,2 3-Benzotriazole, 5 amino-1 6-di methyl, 3-oxide, 4266¹
- 4 3 Pyrolopycolol 1(2) one, semicarbazone, 1521¹
- C₈H₉N₂O₂ (See also Caffeine)
- Cryogenin 5878¹
- Pyridazolo[4,5-*b*]pyridazine 1,4(2 3) dione, 6,7-dihydro 5 8-dimethyl, 1826²
- C₈H₉N₂O₃ Uric acid *p*-propyl 8-thio-, 3966¹
- C₈H₉N₂O₃ Theobromine, 8-methoxy, 1802¹
- Triazene, 3-methoxy 3 methyl-1 (1) (*p*-nitrophenyl) 5406¹
- Uric acid, trimethyl, 1802¹, 4297²

C₈H₁₆N₄O₄S Pseudouric acid, 9 allyl-8-thio-,3966¹C₈H₁₆N₄O₄ 5,5-Sp robitrypantoin 1 3 3 tri methyl 3967¹C₈H₁₆N₄O₄ Dimethylamine picrate "O" 2626²Ethylamine picrate "O" 2626²C₈H₁₆N₄O₄ Dimethylamine styphate "O"

Ethylamine styphate "O"

C₈H₁₆N₄O₄ Biurea phenyl 2 o dithio- "O" 2631²C₈H₁₆O (See also Phenethyl alcohol Phenethyl

Xylenol)

Anisole methyl 1134¹ 2718¹ 2980²3323¹ 3974¹Benzyl alcohol α methyl 285¹ 304¹2130 P 5016¹ P 51¹α γ-Octatetraaldehyde 683² and 8-
HSO₃ compd 5691¹Phenol β ethyl P 119¹C₈H₁₆O₃ m Toluylmercaptan 4 methoxy 2127¹C₈H₁₆O₃ (See also Benzene dimethoxy β-ero

role)

Butanone (2 furyl) 513¹ 1245¹Creosol, 942 397¹1 2 Ethanediol phenyl 427¹Ethanol 2 phenoxy 1221¹Isocresol 3977¹2 5 Octadecane 2 " diol " 4¹α γ-Octatetraaldehyde acid and salts 683²Phenol m methoxy 5408¹Resorcinol 2 5-dimethyl 5417¹C₈H₁₆O₄ 3 Furanacetoxylac acid 2 methylEt ester 1245¹Phenol dimethoxy 503¹ 707¹ 5423¹Pyrogallol 3 ethyl 2707¹Pyromuric acid Et ester 3645¹C₈H₁₆O₃ Benzenesulfonic acid Et ester 2703¹m Toluenesulfonic acid 4 methoxy 2127¹C₈H₁₆O₃ Benzenesulfonic acid p-methoxyMe ester 3324¹

Toluenesulfonic acid hydroxy, Me ester

3322¹2 4 Xylenesulfonic acid 6-hydroxy 530¹C₈H₁₆O₃ Xylenesulfonic acid dihydroxyBa salt 691¹C₈H₁₆O₃ Methanoic acid Me Ph ester 4549¹C₈H₁₆O₃ 1 2 3 3 Butanetetraacetoxylac acid1403¹C₈H₁₆N₄O₄ Carban lamide 5 arsone 2 hydroxy P 1950¹C₈H₁₆Br₂N₄O₄ Barbituric acid 5-bromo-3-butyl5400¹C₈H₁₆Br₂O Cyclohexanol 1 bromomethyl 73¹P 711¹C₈H₁₆Br₂O Glutaric acid β bromo-α hydroxyα γ trimethyl lactone 2121¹C₈H₁₆Cl₂O₃ Lithanesulfonic acid 1-chloro-phenylhydrazide 2959¹C₈H₁₆Cl₂O₃ See ChloraloseC₈H₁₆Cl₂O₃ See Urochloric acidC₈H₁₆Co₂KO₄ + 4H₂O Potassium salt of cobalt

complex of mercaptosuccinic acid "7"

C₈H₁₆Co₂N₄O₄ 4483¹C₈H₁₆N₄ Pyridine 5-iodo-2 isopropylamino-P 2245¹C₈H₁₆N₄ (See also Aniline 1 1-dimethyl

Aniline n-ethyl)

Benzylamine, 1 methyl 5935¹Δ-Cyclopentanecarboximide methyl, 4234¹Phenethylamine, 1541¹, 1510¹ 2⁰11¹ salts3406¹Pyridone base, b 183-50° and salts, 3651¹38-2¹Xyridine, P 1.651¹ 1501¹, P 2157¹ 5095¹C₈H₁₆NO (See also Phenethylamine Tyramine)2,6-Acetoxyde, hydroxy, P 215¹Benzyl alcohol α (aminomethyl), 1240¹,1551¹1 Butanone, 1 (2 pyrrol), 145¹Ketone propyl 2 pyrrol, 2484¹2 6 Lutidine 4 methoxy, 515¹α γ-Octatetraaldehyde oxime, 683²α γ-Octatetraamide 683²Phenethyl alcohol, amino, 1810¹ 4566¹Phenol p-dimethylamino-, 503¹2 Pyridol 4 5 6 trimethyl, 3652¹4(1) Pyridone, 1,2,6-trimethyl, 515¹2 Pyrrolealdehyde 5-ethyl 3 methyl, 3356¹Xylenol amino- 930¹ 2424¹C₈H₁₆N₄O₃ m Phenethyl mercaptan 6-amino-, P1098¹C₈H₁₆N₄O₃ Aniline 3 5-dimethoxy-, and salts,1816¹

Ketone 5 hydroxy 2,4 dimethyl 3

pyrrol methyl 4009¹Maleimide methylpropyl 3009¹Pyrocatechol 4 6-aminomethyl 2104¹1 Pyrroleacetic acid Et ester 1521¹2 Pyrrolepropionic acid 5-methyl, 3647¹Tyramine hydroxy 5193¹C₈H₁₆N₄O₃ Benzyl alcohol α-(aminomethyl)3 4 dihydroxy 1300¹C₈H₁₆N₄O₃ Xylenesulfonamide hydroxy 284¹2 5-Xylenesulfonic acid 4 amino- 2703¹C₈H₁₆NO₃ Glutaric acid α-cyano-β γ-dimethyl,1803¹C₈H₁₆N₄O₃ Sodium barbitol 4329¹C₈H₁₆N₄ Propionaldehyde 3 pyridylhydrazene3344¹

Quinoxaline 2 amino 5 6 7,8 tetra

hydro- 1254¹C₈H₁₆N₄O₃ See VagrinC₈H₁₆N₄O₃ Histidine N glycol 5180¹C₈H₁₆N₄O₃ Semicarbazide, thio 4 p-tolyl, andHCl 1225¹C₈H₁₆N₄ Biguanide, phenyl sulfide, 2421¹2322¹C₈H₁₆N₄O₃ Biurea, 1 amino- 3634¹Isocanthine, 9 allyl-8-antroso- NH₂ salt,3966¹C₈H₁₆ Compd b 110-20° from brown-coal gasbenzene 3463¹Polymer b 110-8°, from MeCH C Cl₃911¹C₈H₁₆As₂N₄O₃ Arsanilic acid, 1 β-hydroxyethylP 3439¹o-Arsanilic acid, 1 β hydroxyethyl, 4863¹

3 5-Xylenesulfonic acid α-amino-4 hydroxy,

P 714¹C₈H₁₆Br₂N₄O₃ Proline 1 (α-bromopropionyl), 77¹C₈H₁₆Cl₂N₄O₃ Pyrimidine, 4,6-dichloro-5,5-dimethyl2 5-dihydro- 2697¹C₈H₁₆Cl₂O₃ 3 Hexam-2,5-diol, 1,8-dichloro-2,5-dimethyl, 4523¹C₈H₁₆Co₂O₃ + 3 H₂O Cobalt complex ofHSCl₂CO₂H 77¹C₈H₁₆H₂N₄O₃ 358¹C₈H₁₆N₄ α γ-Octatetraaldehyde hydrazone,683²p-Phenylenediamine dimethyl, 2707¹, 5772¹C₈H₁₆N₄O₃ 2(1) Pyrazinone 3,4 dihydro-1 4 6-trimethyl 3 methylene, 2431¹Pyrrole 3 acetamido-2,4-dimethyl, 961¹C₈H₁₆N₄O₃ Compd m 198¹ from 2,4-di-methyl-3-propylpyrrole 3009¹

2(1) Pyrazinone 4-ethoxy 1,5-dimethyl,

84¹

- 2,5 Pyrrolopyrrolone 1,4 dione 2,3,6,7
8 Sa hexahydro 2 methyl, 77¹
Urea (ketocyclohexylidenemethyl) 1254¹
C₂H₁₁N₃O₂ See *Berberal*
C₂H₁₁N₃O₂ Carbamic acid, acetylacetic- di Et
ester 270¹
3 Hydantoinacetic acid Pr ester 4226¹
C₂H₁₁N₃Se₂ Hexane, 1,6-d selenocycano- 1521¹
C₂H₁₁N₃O Carbohydrate α tolyl 3633¹
Ketone, methyl 5-methyl-2 pyrrol semi
carbazone 3008¹
C₂H₁₁N₃O₂ Histidine V glycol, 5180¹
C₂H₁₁O Norcamphor 3 methyl 3647¹
C₂H₁₁O₂ Δ¹ Cyclohexenone 3 hydroxydi
methyl 3310¹ 5412¹
Δ^{1,2} 1,2 Cyclopentadienediol 3 5 5
trimethyl (?) 2121¹
1,2 Cyclopentanedione 3 3 5 trimethyl
(?) 2121¹
Δ^{1,2}Cyclopenteneacetic acid α-methyl 280¹
C₂H₁₁O₂ Anhydrosilylhydroxyhexanone acetate
488¹
C₂H₁₁O₂ Compd from caryophyllene 2988¹
Crotonic acid β hydroxy Et ester acetate
5394¹
Cyclohexanedicarboxylic acid 3232¹
Glutaric acid α hydroxy α methyl
γ lactone Et ester 83¹
Succinic acid β hydroxy α methylpro-
pyl γ lactone, 70¹
— (α-methylpropenyl) 70¹
— (α-methylpropylidene) 70¹
C₂H₁₁O₂ Oxalacetic acid di Et ester 3064¹
C₂H₁₁O₂ Butanetricarboxylic acid methyl
82¹, 1803¹
C₂H₁₁Ag₂Pb See *Lead acetate*
C₂H₁₁Ag 1 Pentene, 3-ethyl-3 methyl Ag de-
riv, 5590¹
C₂H₁₁BrN₂O₂ Alanine, N (N (α bromopro-
pyl)glycyl), 2741¹
C₂H₁₁BrO 1 Penten 3 ol, 1 bromo 3 4 4
trimethyl, 73¹
C₂H₁₁Br₂O 2 Octanone 1 tribromo- 71
C₂H₁₁N₂ Dimethylphenylazanium iodide
2982¹
C₂H₁₁N Pyrrole 1 butyl 951¹
Pyrrole, 2 methyl-4 propyl 3010¹
C₂H₁₁NO 1 Pyrroloethanol α α-dimethyl 1826¹
Tropanone 1290¹
C₂H₁₁NO₂ Arecoline 1902¹ 4621¹ 5004¹
Glutaramide α ethyl β methyl, 1803¹
— α, β γ trimethyl 82
Succinimide N butyl 1521¹
C₂H₁₁NO₂ N-pyrotic acid 4 keto- Et ester
and HCl 4268¹
C₂H₁₁N₂O Semicarbazone m 221¹ of ketone
from brown coal tar 3463¹
C₂H₁₁N₂O₂ 4,6(1 5) Pyridinedione 5 5-
diethyl 2 3 dihydro-2 imino- 2697¹
C₂H₁₁N₂O₂ Aspartic acid N (N glycylglycyl)
4018¹
C₂H₁₁N₂O₂ Neodymium hydroacetate 5858¹
C₂H₁₁O₂Sm Samarium hydroacetate 5858¹
C₂H₁₁ 1 Octene 714
1 Pentene, 3 ethyl 3 methyl 5890¹
C₂H₁₁BrNO₂ Norval pe, V (α-bromopropionyl),
493¹
C₂H₁₁ClNO₂ Leucine, V-chloroacetyl, 305¹
C₂H₁₁ClNO₂ Glucosamine, Δ-chloroacetyl,
1805¹
C₂H₁₁Cr₂O₂ Chromium acetate basic 4480¹
C₂H₁₁HgN₂O₂ Acetamide, V amyl α-cyano-α
(hydroxymercury), 3619¹
C₂H₁₁INO₂ Cyclohexanecarbamic acid 2 sodo-
Me ester, 3617¹
C₂H₁₁N₂ Pyrazine, 2 5 dihydro 2 2 5 5
tetramethyl and chloroplatinate 4271
C₂H₁₁N₂O Acetamide N amyl α-cyano- 3619¹
C₂H₁₁N₂O₂ Alanine N propyl 1487¹ 2974¹
Proline 1 alanyl 77¹
2-Pyrrolohexanecarboxamide 1 α hydroxy
propionyl 77¹
C₂H₁₁N₂O₂ Malonic acid carbamido- di Et
ester 919¹
C₂H₁₁N₂O₂ See *Glutathione*
C₂H₁₁N₂O₂ 5 Imidazolecarboxamide 4 di
methylamino N 1 d methyl and
sals 5894¹
C₂H₁₁N₂O₂ Uresidine tetramethyl 5894¹
C₂H₁₁N₂O₂ 4 Imidazolecarboxamide 4
ethylamino tetrahydro 2 5 d keto
N 1 dimethyl, 396¹
C₂H₁₁N₂O₂ Asparagine asparagyl 5905¹
Asparagine N (N glycylglycyl) 4018¹
Glycine Y (N asparagylglycyl) 4018¹
— N (N glycylasparagyl) 4018¹
C₂H₁₁N₂O₂ 1 2 3 Butanetrone 1 amino-
trioxime N deriv 3622¹
C₂H₁₁O Cyclooctanone 3972¹
Ether Δ¹ cyclohexenyl ethyl 971¹
Heptenaldehyde α-methyl 5140¹
Heptanone methyl 939¹ 1217¹ 3312
Δ^{2,2} Hexenone 3 4 dimethyl 3312¹
1 Hexin 3 ol 3 4 d methyl 3312¹
9 Oxabicyclo[6 1 0]nonane, 3972¹
C₂H₁₁O₂ Caproic acid α ethylidene 5394¹
Cyclopentanecarboxylic acid 3 methyl 4234¹
3 5 Octanedione 1802¹
Pentenoic acid β ethyl α methyl, 4524¹
C₂H₁₁O₂ Acetoacetic acid α, α-dimethyl Et
ester 493¹ 2694¹
Acetoacetic acid α ethyl Et ester, 82
916¹
Caproic acid β keto- Et ester 3010¹
Dihydro deriv bu 95¹, of acetate of anhy-
dride of 5 6-dihydroxy 2 hexanone 458¹
Hexanone hydroxy acetate 488¹
Levalone acid monopyl ester 493¹, 5393¹
Pr ester 496¹ 5398¹
4 Pyranecarboxylic acid tetrahydro- Lt
ester 651¹
Valeric acid, α β epoxy β-methyl, Et ester
71
C₂H₁₁O₂ Glutaric acid, ethylmethyl, 1803¹,
5664¹
Glutaric acid β-propyl 5664¹
— α β γ trimethyl 1803¹
Malonic acid ethylpropyl, 5664¹
—, methyl di Et ester 82¹ 919¹, 3620¹
Oxalic acid diisopropyl ester 5892¹ di Pr
ester, 5892¹
Suberic acid P 177¹ 1501¹, 5664¹ Va salt
5933¹
Succinic acid di Et ester, 1797¹, 1¹98¹
—, α β-diethyl, 5664¹
— tetramethyl, 5664¹
C₂H₁₁O₂ Arabodiolactone trimethyl, 277¹
1223¹, 1223¹ 5815¹
Ethanol 1,1-oxybis-, diacetate P 3666¹
Glutaric acid, β hydroxy-α α γ trimethyl,
2121¹
Lyxonolactone trimethyl-, 1222¹
Propanediol methoxy, diacetate, 916¹
2692¹
Xylonolactone, trimethyl, 277¹, 1222¹
C₂H₁₁O₂ Compd from xylan, 485¹

- Glucose 4-6-ethylidene- 5401^a
 Tartaric acid *n* 8-dimethoxy di Me ester 514^a
 Tartaric acid di Et ester 515^a
 C₆H₁₀O₅ Acetic acid (oxybisethylenesulfonyl) 115- and Pb salt 2^a
 C₆H₈ Cyclohexanecarboxylic acid, dihydro-Me ester 300^a
 C₆H₈BrNO₂ (res *n*-bromo- α -ethylvaleryl) 8 181^a
 C₆H₈BrO Ether *n*-bromoethyl 1,2-butenyl ethyl 2684^a
 C₆H₈Cl Pentene 2-chloro-3-ethyl-3-methyl, 5890^a
 C₆H₈ClO Enanthyl chloride methyl 981^a 362^a
n Hexanone 4-chloro 2,4-dimethyl 3312^a
 C₆H₈ClO₂ 1-Butanol 1-chloro-butyrate P 3666^a
 1-Hexanol 6-chloro acetate 5394^a
 C₆H₈ClNO₂ Compd m 158^a from compd b 140-50^a 181^a
 C₆H₈ClNS Compd b 140-50^a from cyclohexylsulfonylthylamide and PCl₅ 181^a
 C₆H₈N Caprylonitrile 5323^a
 Enanthonitrile β -methyl 362^a
 Isoalacetonitrile α -isopropyl 5219^a
 Δ Pyrroline 1-methyl 2-propyl and per chloral 103^a
 C₆H₈NO See also Trop ne
 Cyclooctanone oxime 39^a 2^a
 Piperidine 1 (β -epoxypropyl) P 1039^a
 C₆H₈NO₂ Leucine α -acetyl 1,059^a
 C₆H₈NO₂ Compd m 142^a from 2,3,4-trimethylarabonamide and alk hypochlorite 4234^a
 3,3,2 Oxazone 2-one tetrahydro 4,5-dimethoxy 8-methoxymethyl 4224^a
 C₆H₈NO = Heptenaldehyde semicarbazone 5119^a
 Semicarbazone m 183^a of ketone b 146^a 149^a
 C₆H₈NO₂ 1,3,4,6-Thioazone 5-ol 2-methylamino-Me der 300^a
 C₆H₈NO₂ Levulinic acid Et ester semicarbazone 496^a
 Valonamide α -isovalerylamino 5399^a
 C₆H₈NO₂ Alanine γ -alanineglycyl 2741^a
 C₆H₈N₂ Pyrimidine 3,5-dithiazohydro 2,4,6-trimethyl and mono-*HC* 2697^a
 C₆H₈ Cyclohexane δ -methyl 1101^a 1132^a 1134^a
 Diisobutylene 171^a 5603^a
 Octene 171^a 4751^a
 Pentene trimethyl 53 1217^a 4643^a
 C₆H₈Ag₂Cd₂N₂Se 1754^a
 C₆H₈Ag₂Cd₂N₂Se 1754^a
 C₆H₈Ag₂Cd₂N₂Se 1754^a
 C₆H₈Ag₂N₂Se 20 1734^a
 C₆H₈Br₂Te Tellurophene 1 (β -bromobutyl) 1,2,3,4,5-hexahydro 1 (endo, 1,2) 1^a
 C₆H₈Br₂OTe Tellurophene 1 (α -bromobutyl) 1,2,3,4,5-hexahydro- 1521^a
 C₆H₈Br₂Te Tellurophene 3-bromo-1 (β -bromobutyl) 1,2,3,4,5-hexahydro-, 1521^a
 C₆H₈Cd₂H₂N₂Se 392^a
 C₆H₈Cd₂N₂Se 39 2^a
 C₆H₈ClNO₂ Cyclohexylsulfonylchloride, ethyl amide, 1812^a
 C₆H₈ClO₂ 4-Heptanol, 4-(dichloromethyl), 2112^a
 C₆H₈ClO₂ Ether, butyl- (β -chloroethyl) mercaptoethyl, 2114^a
 C₆H₈ClO₂PS₂ 1,4-Selenoxane, chloroplausate 2114^a
 C₆H₈Cu₂Hg₂N₂Se, 3923^a
 C₆H₈Cu₂Hg₂N₂Se, 1754^a
 C₆H₈Cu₂N₂Se 3925^a
 C₆H₈Hg₂N₂Se 3925^a
 C₆H₈Hg₂N₂Se 3925^a
 C₆H₈N₂ 2-Butanone, amine, 2413^a
 C₆H₈N₂O₂ Succinamide, γ , γ , γ , γ -tetramethyl, 1218^a
 C₆H₈N₂O₂ Glycine, γ tucyl, 117^a, 2637^a, 3017^a
 C₆H₈N₂O₂ Erythrosediacetamide 1220^a
 C₆H₈N₂O₂ Glycinamide, glucose, 4231^a
 C₆H₈N₂O₂ Piperazine 2,3,5,6-tetramethylidene 4272^a
 C₆H₈N₂O₂ 3-Hexanediol, 3-hydroxy, disemcarbazone, 494^a
 C₆H₈N₂Se 3923^a
 C₆H₈O Cyclohexanethanol 3319^a
 Cyclohexanol, 2-ethyl, 4234^a
 Cyclohexanol, 2-isopropyl, 4234^a
 α , 2-propyl, 4234^a
 Ether, allyl amyl, 4627^a
 3-Heptanone, 5-methyl, 1217^a, 3312^a
 2-Hexanone 3,4-dimethyl, 1217^a, 3312^a
 2-Octanone 4142^a, 5322^a
 Octenol from leaf of *Chamaecyparis obtusa*, 2425^a
 3-Pentanone 2,2,4-trimethyl, 1790^a
 C₆H₈O₂ Caproic acid, 1685^a, 7014^a, 2971^a, 3895^a 5822^a K salt 1144^a
 1,4-Cyclohexanediol 1,4-dimethyl, 3893^a
 Cyclohexanone, di Me acetal, 1798^a
 1,2-Cyclooctanediol 3872^a
 Enanthic acid methyl, 981^a, 2627^a
 3-Heptanone 5-hydroxy-5-methyl, 3312^a
 Hexamethylene oxide, 2-methoxy 5-methyl, 29^a 5^a
 2-Hexanone, 3-hydroxy 3,4-dimethyl, 3312^a
 Isovaleric acid α -isopropyl, and Ag salt, 1219^a
 Valeric acid β -methyl, Et ester, 3670^a, 4542^a
 C₆H₈O₂ Caprylic acid, α -mercapto-, 982^a
 C₆H₈O₂ Butyric acid, γ -butoxy, 3938^a
 Butyric acid δ -hydroxy α , ω -dimethyl, Et ester, 1797^a
 Enanthic acid 1-methoxy 3672^a
 Furan tetrahydro 2-methoxy 5-(methoxymethyl) 2-methyl 1^a 458^a
 Lactic acid amyl ester, 3182^a
 Isonicotic acid, β -isomeric, 4319^a
 Pyran tetrahydro 2,5-dithiazohydro-2-methyl 7^a 455^a
 Valeric acid δ -ethyl (β -hydroxy- α -methyl), Et ester 4524^a
 C₆H₈O₂ Acetic acid, (β -butoxyethoxy), 2417^a
p-Dioxane 2,3-dithioxy, 4496^a
 α -2,3-dimethoxy 2,5-dimethyl, 3067^a
m-Dioxane 3,4-dicarbonyl, 2,2-dimethyl 1801^a
 Glyoxylic acid, di Et acetal, Et ester, 2112^a
 Isoaleric mono-, 5397^a
 Valeric mono-, 5397^a
 C₆H₈O₂ Xylopyranose, 2,3,4-trimethyl, 5615^a
 Xylose, trimethyl, 4230^a

- C₈H₁₇O₂S Glucoside, α -ethylthio-, 4232¹
 C₈H₁₇O₂ Galactoside, α -ethyl-, 1708²
 Glucoside, methyl 8-Me ether, 4230³
 — 3 methylmethyl, 5666⁴
¹ Monomethoxymethylketoside from α methoxyhydracrylaldehyde and CO(CH₂OH); 1223
 C₈H₁₇Br Heptane, 1 bromo-3 methyl, 3627¹
 Octane 1 bromo 5322²
 C₈H₁₇BrNO₂ β , γ Dibromopropyltrimethylammonium acetate, P 2814³
 C₈H₁₇ClO 1 Octanol, 8-chloro-, 5395¹
 C₈H₁₇IMg Octylmagnesium iodide, 3959²
 C₈H₁₇N Conine, 3667¹
 Cyclohexylamine, N ethyl, P 964³ 1609
 tetrahydro P 3359³
 Pyrrolidine 1 butyl, and chlorosulfate 951²
 C₈H₁₇NO Caproamide N N dimethyl 2972¹
 Caprylamide 2972²
 Enantamide β methyl, 3627¹
 Ethylene oxide β dimethylamino α α diethyl 4271¹
 3 Hexanone, 6 dimethylamino 4523¹
 Isovaleraldehyde α (dimethylaminoethyl) P 2734²
 Isovaleramide α isopropyl 1219³
 2 Octanone oxime 5322²
 C₈H₁₇NO₂ Butyric acid, γ dimethylamino Et ester, 1218¹ 4525¹
 Butyric acid, β -ethylamino- Et ester and HCl 2117¹
 Caproic acid α (α -aminoethyl), and HCl 5394¹
 —, α -dimethylamino-, and salts 1218¹
 Isoleucine, Et ester 2418¹
 Isovaleramide α hydroxy α isopropyl 3960² 5605²
 Leucine Et ester, HCl 490³
 Propionamide, β isomeric 4849¹
 C₈H₁₇NO₃ Cyclohexanesulfonamide N ethyl, 1812¹
 C₈H₁₇N₂ Adipic acid dimethylamine acid salt, 1218¹
 C₈H₁₇NO₂ Arabonamide trimethyl 4224¹
 C₈H₁₇NO₂ Valeramide acid α hydroxy α propyl, monoamide with H₂SO₄ Na salt, 5605¹
 C₈H₁₇ (See also Octane)
 Butane, 2 2 3 3 tetramethyl 1717¹
 Hexane, 2 4-dimethyl 4845¹ 5137²
 Pentane, 2 2 4 trimethyl, 1717¹ 3562²
 C₈H₁₇AuBr Dibutylgold bromide 4220¹
 Diisobutylgold bromide 4220²
 C₈H₁₇AuCl₂NO 1 - β Hydroxyethyl 1 methylpiperidinium chlorosulfate 1814¹
 C₈H₁₇AuCl₂NO₂ Choline, propionyl, chlorosulfate 3315²
 C₈H₁₇BrNO₂ β Bromoethyltrimethylammonium propionate P 2814³
 C₈H₁₇HgS₂ *tert* Butyl mercaptan Hg deriv, 3618¹
 C₈H₁₇Mg Magnesium diisobutyl 1216¹
 C₈H₁₇N₂ Butane 2 2 azobis- 2416¹
 Piperazine, 2 3 5 6 tetramethyl, and HCl, 4272¹
 C₈H₁₇N₂O 2 - Propanol 1 amine 3 - (1 piperidyl), P 1259²
 C₈H₁₇N₂O₂S Taurine, N leucyl, 492¹
 C₈H₁₇N₂ Suberamide, di HCl 5665²
 C₈H₁₇N₂S Pseudourea γ , γ hexamethylenebis [thio-, HCl, 5685¹
 C₈H₁₇O (See also Butyl ether)
 Heptanol, methyl, 1217¹, 3312², 3627¹, 4845¹ 5830²
 2 Hexanol dimethyl, 3312² 4845¹
 Isobutyl ether P 302¹
 Octanol, 4846¹ 5830²
 Octyl alcohol 2700¹ 4223², 5322², 5830²
 C₈H₁₇O₂ Butyraldehyde di Et acetal, 1708¹
 1,8 Octanediol, 1798¹
 C₈H₁₇O₂S Sulfide bis(β ethoxyethyl) 2114¹
 C₈H₁₇O₂S₂ 1 Butanesulfonic acid, thiol, Bu ester 1812¹
 C₈H₁₇O₂ Ethanol 2 (β butoxyethoxy) 5335¹
 Isobutyraldehyde α -hydroxy di Et acetal, 2112²
 Orthoacetic acid tri Et ester 2976¹, 5828¹
 1 2 Propanediol 3 isomeric, 916¹
 C₈H₁₇O₂S Butyl sulfite 1797¹
 C₈H₁₇O₂S Hydracrylaldehyde α methoxy di Et acetal 1223² 5402¹
 1 Propanol, 3 methoxy 2 2 bis(methoxy methyl) 1801¹
 C₈H₁₇O₂S₂ See Trioxal
 C₈H₁₇S Butyl sulfide 5094¹
 Isobutyl sulfide 1663¹ 5094¹
 Octyl mercaptan 75¹
 C₈H₁₇N D butylamine H₂S salt 4219¹
 Heptylamine γ methyl 3627¹
 Octylamine salts 70¹
 C₈H₁₇NO₂ Choline acetyl methyl 1587¹
 C₈H₁₇Au₂Br₂ Diethylgold bromide 1216¹
 C₈H₁₇BrN Tetraethylammonium bromide 2626¹
 C₈H₁₇ClN Tetraethylammonium chloride 2626¹
 C₈H₁₇ClNO₂ Tetraethylammonium perchlorate 2351¹ 2626¹
 C₈H₁₇Cl₂MoO₄ 889²
 C₈H₁₇CuN₂Na₂O₂ Oxamide N ethyl Na Cu deriv, 497¹
 C₈H₁₇F₂NF 1754¹
 C₈H₁₇Ge Germane tetraethyl, 70
 C₈H₁₇IN Tetraethylammonium iodide 2351¹ 2626¹ 3538¹
 C₈H₁₇N₂ Hydrasine, *s* di sec butyl, and hydrochlorides 2415¹ 2416¹
 Putrescine, N N N N tetramethyl and salts 1218¹ 2691¹
 C₈H₁₇N₂O₂ Propionaldehyde β (α methylhydrazone), di Et acetal 4237¹
 C₈H₁₇N₂O₂ Tetraethylammonium nitrate 2351¹, 2626¹
 C₈H₁₇N₂S Diethylamine N N dithiobis P 1538¹ 4853¹
 C₈H₁₇N₂S Diethylamine N, N trithiobis- 4853¹
 C₈H₁₇O₂Si Ethyl orthosilicate 1485¹
 C₈H₁₇O₂Sn Ethyl stannate, 1177¹
 C₈H₁₇O₂Ti Ethyl titanate 2971¹
 C₈H₁₇O₂P₂ Ethyl pyrophosphate and derivs, 3618¹
 C₈H₁₇O₂P₂ Ethyl hypophosphate 3618¹
 C₈H₁₇O₂P₂S Compd b₁ 147 5-8 5¹, from tetra Et hypophosphate and S 3618¹
 C₈H₁₇O₂P₂ Ethyl pyrophosphate, 3618¹
 C₈H₁₇Pb See Plumbane tetraethyl
 C₈H₁₇Si Silicane tetraethyl, 1485¹
 C₈H₁₇Sn₂ Stannane, vinylenebis(trimethyl, 70¹
 C₈H₁₇ClN₂ Trimethyl(β methylaminobutyl) ammonium chloride, 2691¹
 C₈H₁₇Br₂NO₂W Monotetraethylammonium aquotetrabrometungstate, 2069¹
 C₈H₁₇Cl₂N₂Pd Di 1 2 isobutylene diamine-palladium chloride, 5862¹

- C₂H₄Cl₂N₂Pt D: 1 2 isobutylenediammine platinum chloride 556⁴
- C₂H₄Cl₂N₂PdPt 1 2 Propanediamine 2 methyl palladium tetrachloroplatinate 556⁴
- C₂H₄Cl₂N₂Pt: 1 2 Propanediamine 2 methyl platinum tetrachloroplatinate 556⁴
- C₂H₄N₂O 3 + 4H₂O 1177³
- C₂H₃Cl₃Mo₂N 3587³
- C₂H₂Br₂CdCl₂Co₂N₂ 5108³
- C₂H₂CdCl₂Co₂I₂N₂ 5108³
- C₂H₂CdCl₂Co₂N₂ 5108³
- C₂H₂Cl₂Co₂CuN₂ 5108³
- C₂H₂Cl₂Co₂N₂Sn 5108³
- C₂K₂La₂O₈ + 11H₂O Lanthanum potassium oxalate 2658³
- C₂K₂Mo₂N₂ Potassium molybdenum 2384³
- C₂K₂Mn₂N₂O 3: 869³
- C₂K₂Mo₂N₂ + 21H₂O Potassium molybdenum 2384³
- C₂La₂N₂O₈ + 11H₂O Lanthanum sodium oxalate 2658³
- C₂H₂Br₂O Indone 2 3 6 tribromo- 1237⁴ 4235³
- C₂H₂AgBr₂O Ether propargyl 2 4 6 tribromo phenyl Ag deriv Ag₂O₂ deriv 1815⁴
- C₂H₂Br₂CuO Ether propargyl 2 4 6 tribromo phenyl Cu deriv 1815⁴
- C₂H₂Br₂NO Indone 2 3 6 tribromo- oxime 1237⁴
- C₂H₂N₂O₂ 2 Iodoacetyl azide 5 7-dinitro 3349⁴
- C₂H₂AgBr₂O Ether dibromophenyl propargyl Ag deriv Ag₂O₂ deriv 1815⁴
- C₂H₂AgCl₂O Ether 2 4 dichlorophenyl propargyl Ag deriv Ag₂O₂ deriv 1815⁴
- C₂H₂Br₂Cl₂N₂ Toluene 3 bromo 5 chloro-4 pentachloroethylazo 4244⁴
- C₂H₂Br₂O Propionic acid (p-bromophenyl) 4235⁴
- C₂H₂Br₂Cl₂NO Oxindole 5 7-dibromo 3 3-dichloro-1 methyl 203⁴
- C₂H₂Br₂Cl₂N₂ Toluene 3 5-dibromo 4 penta chloroethylazo 4244⁴
- C₂H₂Br₂CuO Ether 2 4-dibromophenyl propargyl Cu deriv 1815⁴
- C₂H₂Br₂NO Indone 2 3 6 bromo- oxime 1235⁴
- C₂H₂Br₂NO₂ 3 Iodoacetyl azide 5 6-dibromo 700⁴
- Pseudo satru 5 7-dibromo-1 methyl 294⁴
- C₂H₂Br₂ Indene tribromo 714 1517⁴
- C₂H₂Br₂O Ether propargyl 2 4 6-tribromo-phenyl 1815⁴
- C₂H₂Br₂Cl₂N₂ Toluene 3 5-dibromo-4 (α,β-di-bromo-β-chlorovinylazo) 4244⁴
- C₂H₂Br₂NO₂ Anthranilic acid 4 acetyl tetra bromo- 2709⁴
- C₂H₂Br₂O Ether, allyl pentabromophenyl 1815⁴
- C₂H₂Br₂O Ether β γ-dibromopropyl penta bromophenyl 1815⁴
- C₂H₂Cl₂NO₂ 8 Quinolone, 5-chloro-2,4,6-triform 4612⁴
- C₂H₂Cl₂N₂ Thiocyanic acid 5-chloro-2-cyano-methyl ester, F 1255⁴
- C₂H₂Cl₂O₂ 1 Benzofuran-carbonyl chloride 1245⁴
- C₂H₂Cl₂O₂ Thiophenanthrenequinone chloromethyl-, 5165⁴
- C₂H₂Cl₂O₂ 4 Isobenzofuran-carbonyl chloride 1 2-dihydro-1 keto- 3325⁴
- C₂H₂Cl₂N₂ Isat n 4,3-dichloro-7 methoxy, P 2736⁴
- C₂H₂Cl₂ Indene, 1,1,3 trichloro-, 73⁴
- C₂H₂Cl₂N₂O₂ Mesoxalic acid, (2,4,6 trichlorophenyl)hydrazine, 5406⁴
- C₂H₂NO₂ 4 Isobenzofuran-nitrile, 1,2-dihydro-1 keto- 3325⁴
- C₂H₂N₂O₂ 1 2,4-Oxadiazole 3 nitrile, 5-phenyl, 81⁴
- C₂H₂N₂O₂ 2 Iodoacetyl azide, 5,7 dinitro, 3349⁴
- Strychol, dinitro-, 3349⁴
- C₂H₂Br₂Cl₂NO Oxindole, 5-bromo-3,3-dichloro-1 methyl 293⁴
- C₂H₂Br₂N₂ Cinnamonnitrile, α bromo-, 1819⁴
- Isoquinoline, 4 bromo-, 5427⁴
- Quinoline bromo-, and HCl, 5427⁴
- C₂H₂Br₂NO Acetonitrile p bromobenzoyl 505⁴
- 6 Quinolone 4 bromo-, 904⁴
- C₂H₂Br₂NO₂ Thiocyanic acid, p bromophenacyl ester 505⁴
- C₂H₂Br₂NO₂ 3 Iodoacetyl azide, 6 bromo-, 700⁴
- Pseudo satru 5-bromo-1 methyl, 294⁴
- C₂H₂Br₂NO₂ + 3H₂O Iodoxylic acid 6-bromo-, 1572⁴
- C₂H₂Br₂Cl₂N₂ Toluene, 3,5-dibromo-4 (β,β-dichlorovinylazo), 4244⁴
- C₂H₂Br₂O Ether dibromophenyl propargyl, 1815⁴
- C₂H₂Br₂Cl₂N₂ Toluene 3 bromo-4 (α,β-dibromo-β-chlorovinylazo), 4244⁴
- C₂H₂Br₂NO₂ Benzoic acid, 3-acetamido-7,7,7-tribromo-4 hydroxy, 2709⁴
- Sabicylic acid 3 acetamido-7,7,7-tribromo-, 2709⁴
- C₂H₂Br₂O Ether β γ-dibromopropyl 2 3 4 5-tetra bromophenyl, 1815⁴
- C₂H₂Cl₂H₂N₂ Isoquinoline 4-chloromercuri, 5427⁴
- Quinoline, chloromercuri, 5427⁴
- C₂H₂Cl₂NO₂ Quinolone 2-chloro-, 2726⁴
- C₂H₂Cl₂NO₂ Acetonitrile p-chlorobenzoyl, 505⁴
- Quinolone chloro- 954⁴
- C₂H₂Cl₂NO₂ Thiocyanic acid, p-chlorophenacyl ester, 505⁴
- C₂H₂Cl₂NO₂ Isatin, 6-chloro-7 methyl, F 1843⁴
- C₂H₂Cl₂O Ether, 2 4-dichlorophenyl propargyl, 1815⁴
- C₂H₂Hg₂O₂ β-Resorcylic acid, 5-(acetoxymercu)-3 (hydroxymercu), 3 4 anhydride, 97⁴
- C₂H₂NO₂ Acetonitrile p iodobenzoyl, 505⁴
- 6 Quinolone 4 iodo- 954⁴
- C₂H₂NO₂ Thiocyanic acid, p odophenacyl ester 505⁴
- C₂H₂N₂O₂ Acetonitrile m nitrobenzoyl 505⁴
- 3 Iodoaldehyde nitro- 700⁴
- 1,2 4-Oxadiazolol, benzoyl, 3338⁴
- C₂H₂N₂O₂ Thiocyanic acid m nitrophenacyl ester, 505⁴
- C₂H₂N₂O₂ 3 Iodoacetyl azide 6-nitro-, 700⁴
- C₂H₂N₂O₂ Benzoic acid, 3 acetamido 4 hydroxy 2 5 6 trinitro, 2709⁴
- C₂H₂N₂O₂ 2 Iodoacetyl azide acid 3 5,7 trinitro-, hydrazide 3349⁴
- C₂H₂O₂ (See also C₂H₂O₂)
- 1 Benzofuranaldehyde, 1245⁴
- Chromone, 515⁴
- Propionic acid, phenyl 71⁴
- C₂H₂O₂ Umbelliferone, 2385⁴
- C₂H₂O₂ Psalutem, 505⁴
- 4 Isobenzofuran-carboxylic acid 1,2 dihydro-1 keto, 3325⁴

- Phthalic anhydride, methoxy 3653² 3655⁴
4869⁶
- C₆H₂O₃ Hemimellitic acid 1822²
- C₆H₂O₃ Trimellitic acid 5-hydroxy 291²
- C₆H AgN₂S 2:3 Triazinemercaptan, 4 amino 6 phenyl Ag deriv 1531³
- C₆H Br Indene, bromo- 1517^{1,4}
- C₆H BrClN₂ Toluene 3 bromo 4 (β β dichloro vinylazo), 4244⁴
- C₆H BrN₂O: Pseudo satra 5-bromo-1 methyl 3 oxime 293²
- C₆H BrO Cinnamaldehyde β bromo 1810⁴
- C₆H BrN Hydrocyanammonitrile α β dibromo 1819⁴
- C₆H Br₂NO Oxindole 5 7 dibromo 1 methyl 293²
- C₆H₂Br₂NOS Thiocyanic acid phenacyl ester dibromide, 505²
- C₆H₂Br₂NO: Acetamide α benzoyl α α dibromo 505
- C₆H Br₂NO: Benzene acid 3 acetamido ? β dibromo 4 hydroxy 2709²
- C₆H Br₂ Indan 1 2 3 tribromo 1517²
- C₆H Br₂O: Phenol 2 3 6 tribromo 4 methoxy acetate 4537²
- Propiophenone tribromo 2 4 dihydroxy 504⁴
- C₆H Br₂O Ether isopropyl pentabromophenyl 1815²
- Ether pentabromophenyl propyl 1815²
- C₆H ClN O₂ Glyoxime chloro Br deriv 79²
- C₆H ClO₂ Malonic acid α (and β) (chlorophenyl) 2134²
- C₆H ClS Thionaphthene 5 chloro-3 methyl 516^{2,3}
- C₆H Cl NO Oxindole 3 3 d chloro-1 methyl 263²
- C₆H Cl₂NO: Anisole 2 (α β dichlorovinyl) 4 nitro 5412²
- C₆H Cl₂N₂O: Pyruvic acid (2 4 6-trichloro phenyl)hydrazine 5406⁴
- C₆H ClO₃ Acetic acid (4 5 6 trichloro-m tolylmercapto) P 5040²
- C₆H₂Cl₂O: Carbamic acid β tolyl trichloro-methyl ester 1228²
- C₆H₂Cl NO₂ β Acetamide 2 3 5 6 tetrachloro 5153⁴
- C₆H Cl NO₂ Anisole 4 nitro 2 (α α β tetrachloroethyl) 5412²
- C₆H₂N (See also Isoquinoline Quinolone) Cinnamonnitrile hydrobromides, 3960²
- C₆H NO (See also Quinolone) 3 Indolealdehyde nitrate 700²
- Isocarbostyryl 2727²
- Propionaldehyde, β phenyl oxime 1819⁴
- α-Tolualdehyde α cyano 4541²
- C₆H₂NO₂ Thiocyanic acid phenacyl ester 505²
- C₆H₂NO₂ Malonimide N phenyl 2418²
- Pseudosatin, 1 methyl 294²
- Quinolinediol P 825² 3332² and salts 2728²
- 2 4 (1 3) Quinolinedione P 1263⁴
- C₆H₂NO₂ 1 4, 2 Benzoxaz 2 one, 3 hydroxy 6 methyl 3347²
- 4 Isobenzofurancarboxamide 1 2 dihydro 1 keto, 3325⁴
- 2 3 Phenomorpholinedione 6 methyl, 3347²
- C₆H NO₂S 2 Hydroxyisouquinolium sulfonic acid cyclic anhydride 4000²
- C₆H NO₂, 3402²
- Cinnamic acid, nitro, 2143^{2,3}
- Styrene, 3,4 methylenedioxy β-nitro-, 5890⁶
- C₆H NO₂ Acetophenone 4,5-methylenedioxy 2-nitro-, 3324²
- Ethylene oxide (4,5-methylenedioxy 2-nitrophenyl), 3324²
- Oxamic acid, o-carboxy, 2148²
- C₆H₂N₂O₂ 1,2,4-Oxadiazole 3 carboxamide, 5-phenylthio-, 81²
- C₆H N₂O₂ Furazan 3 amino-4 benzoyl 3337²
- 1 2 4 Oxadiazole 3 carboxamide, 5 phenyl, 81²
- C₆H N₂O₂ Benzothiazole 1 acetamido-5 nitro-101⁴
- C₆H₂N₂O₂ Thiocyanic acid β,γ-benzoyl β phenacyl ester, 2700²
- C₆H N₂O₂ 1 2 Propanediol 3 (2 4 6 trimethoxy) dimethyl 3977²
- C₆H₂ (See also Indene)
- Benzene, propargyl 2980²
- Propadiene phenyl 2980²
- Propene 1 phenyl 2980
- C₆H₂AsCl₂NO₂ Malonanilic acid p-dichloro-arsyl 5407⁴
- C₆H₂AsNO₂ Malonanilic acid p-arsinooxo-5407⁴
- C₆H₂BrClN₂S Benzothiazole 3 bromo-5-chloro-1 ethylamino- 4681⁴
- C₆H₂BrNO Cinnamaldehyde bromo-oxime 1819⁴
- Oxindole, 5 bromo-1 methyl 293²
- C₆H₂BrNO₂ Anisole 2 bromo-4 (β nitrovinyl) 4552⁴
- 2 Pyrrolecarboxylic acid 4 (β bromovinyl) 5-formyl 3 methyl 1520²
- C₆H₂BrNO Anthranilic acid N acetyl β bromo 5 hydroxy 2709²
- Benzene acid acetamidobromohydroxy 2709²
- Δ² Cyclohexad enone 2 acetyl 6 bromo 4 methyl 4 nitro, 3634²
- Dicarboxylic acid slowly carbonizes above 230° from Et 4 (β bromovinyl) 3 5 dimethyl 2 pyrrolecarboxylate and SO-Cl₂ 1520²
- Salicylic acid acetamido β bromo-, 2709²
- C₆H₂BrNO₂ β Resorcylic acid 5-acetamido-7 bromo-, 2709²
- C₆H₂BrIndan dibromo 1517^{2,4}
- C₆H₂BrClO Ether chlorododophenyl β γ dibromopropyl 1504², 4245²
- C₆H₂BrClO Ether β γ dibromopropyl 2 4 d chlorophenyl 1815²
- C₆H₂BrClIO Ether 2 chloro 4 iodophenyl β γ dibromopropyl dichloride 4245²
- C₆H₂BrN₂O₂ Glyoxylic acid 2 6 dibromo β tolylhydrazine, 4244²
- C₆H₂Br₂O Ether, allyl dibromophenyl 1815²
- 2 Toluol dibromo- 1517^{2,4}
- C₆H₂Br₂O Benzaldehyde, 3 5 dibromo 2 4 di-methoxy, 287²
- Phenol, 4-amino-4 methoxy, acetate 5537²
- Propiophenone 3 5 dibromo 2 4 dihydroxy 504⁴
- C₆H₂BrClN₂S Benzothiazole 3 bromo 5 chloro-1 ethylamino dibromide, 4681⁴
- C₆H₂Br₂O Ether 2 6-dibromophenyl β γ dibromopropyl 1815²
- C₆H₂ClHgN Indole 3 (chloromercuri) 2 methyl, 701²
- Skatole 2 (chloromercuri), 701²
- C₆H₂CINO₂ Benzamide N chloroacetyl 492²
- Oxan yl chloride, N methyl 293²

- C₉H₈ClN₂O₂ Urea, acetyl(*p* chlorophenyl)thio-, 104²
- C₉H₈ClN₂S Benzothiazole 5-chloro-1 ethylamino, 4881¹
- C₉H₈ClO Acetophenone, *o* chloro-*p* methyl, 4879²
- C₉H₈ClOS Acetic acid, chlorothiol *p* tolyl ester 914¹
- Acetyl chloride, *p* tolylmercapto-, 914¹
- C₉H₈ClO₂ Ethanol, 2 chloro benzoate 287¹
- C₉H₈ClO₂ Maudellic acid chloro- Me ester 3837¹
- C₉H₈Cl₂O₂ Carbamic acid ethyl *p* iodophenyl ester dichloride 4245²
- C₉H₈Cl₂NO Acetamide, *o* *o* dichloro *N* methyl 293¹
- p* Acetotoluene 3,5 dichloro- 1501²
- C₉H₈Cl₂NO₂S *p* Benzenedisulfonyl chloride 2 acetamido-5-methyl 4550²
- C₉H₈Cl₂N₂O₂ Vanillin, dichloro semicarbazone 94²
- C₉H₈Cl₂ Benzene, (β , γ , γ trichloropropyl) 3979²
- Mesitylene 2,4,6 trichloro, 5805²
- C₉H₈Cl₂N₂ Acetone, (2,4,6 trichlorophenyl) hydrazone 5406¹
- C₉H₈Cl₂O Ether β , γ dichloropropyl isodiphenyl dichloride 1504² 4245²
- C₉H₈FN₂ Cyanamide (*p* fluorobenzyl)methyl 925¹
- C₉H₈FN₂O₂S Mesitylenesulfonyl fluoride di nitro 253¹
- C₉H₈HgNaO₂S Mercuriolate 1635²
- C₉H₈IO Ether allyl isodiphenyl 1504² 4245²
- C₉H₈IO₂ Ethanol 2 iodo- benzoate 287¹
- C₉H₈IO₂ Carbamic acid ethyl isodiphenyl ester 1504² 4245²
- C₉H₈INO₂ Alanine, β (duodosalicyl) and HCl 288¹
- Alanine β (hydroxyduodiphenyl) and HCl 288¹
- 1(2) Pyridineacetic acid 3,5 duodo 2 keto Et ester 4549²
- Tyrosine duodo 2042² 3727² 4615²
- C₉H₈N (See also Skatole)
- Hydrocinnamonnitrile 912²
- Isoxylon trile 938¹
- Xylonitrile, 938
- C₉H₈NO Cinnamaldehyde oxime 5141¹
- Cinnamamide 2134¹
- Isoxylonitrile 4 hydroxy 936¹
- Oxandole, 5 (and 7) methyl 293²
- C₉H₈NOS Isothiocyanic acid *p* phenetyl ester 4242¹
- 4 Thiochromanone oxime 5425¹
- Thiocyanic acid, *p* phenetyl ester 2699²
- C₉H₈NO₂ Cinnamic acid *o* amino 3917¹
- 3 Phenomorpholone 6 methyl 3347¹
- C₉H₈NO₂S Glycolamide of thio benzoate 2703²
- C₉H₈NO₂ (See also Hippuric acid)
- Anthranilic acid *N* acetyl 2709²
- Malonanilic acid 5671¹
- Pyrimidine-3 carboxylic acid 6,7-dihydro 2 hydroxy, 4883²
- C₉H₈NO₂S Benzenesulfonazole 1 acetyl 1,2 dihydro 928²
- C₉H₈NO₂ Benzaldehyde, 4 ethoxy 3 nitro 1230¹
- Benzene acid acetamidohydroxy, 2709¹
- nitro-, Et ester 2703² 3620²
- Salicylic acid acetamido- 2709¹
- C₉H₈NO₂S Sulfamic acid, (*o*-formylphenyl), 4000²
- C₉H₈NO₂ β Resorcylic acid, 5 acetamido-, 2709¹
- Salvamine 2194¹
- m* Toluic acid, 6 methoxy 5-nitro-, 2134²
- C₉H₈NO₂ Benzoic acid 2,5-dimethoxy ? nitro 1510² 3339²
- Veratric acid, 2 (and 6) nitro 298²
- C₉H₈NO₂S Glycine *N* (*m* carboxyphenyl sulfonyl) 491¹
- C₉H₈NO₂S Salicylic acid nitrosulfo- Et ester and salts 3637¹
- C₉H₈N₂O 1,2,4 Triazole 5(4) one 3 methyl 1 phenyl 3651¹
- C₉H₈N₂OS 1,3,4,6 Thiodiazine 5 ol 2 amino 3002²
- 1,3,4 Thiodiazole 2(3) one 5 *o* toluene 3634²
- C₉H₈N₂O₂ Benzimidazole 1,2 dimethyl 6-nitro 4265²
- C₉H₈N₂O₂ Benzoyl azide 3,5-dimethoxy, 1816²
- Glyoxime amino Bz deriv 79² 81
- C₉H₈N₂O₂ Pyruvic acid, *o* (*m* and *p*) nitro-phenylhydrazones salts 277²
- C₉H₈N₂O₂ Apocaffeine 3 acetyl 3967¹
- Caffeol 7 acetyl 1,3 dimethyl, 3967¹
- Isopocaffeine 1 acetyl 3967¹
- Mesitylene trimetro- 5805¹
- C₉H₈N₂O₂ Anisole, 3,5 dimethyl 2,4,6 trimetro 930²
- C₉H₈N₂S 1 Triazole 3 (methylmercapto) 5 phenyl 2119²
- C₉H₈N₂O₂ δ^1 Oxazoline 2 amino *p* urate 3617¹
- C₉H₈ Benzene allyl 4277²
- Benzene propenyl 89², 687², 3617¹ 4277²
- Indan, 992² 1517²
- Styrene α methyl, 1817²
- C₉H₈AsNO₂ Malonanilic acid, *p* arsono-, 5407²
- C₉H₈AsN₂O₂S 5 Benzenimidazolecaronic acid 2 (carbamyimethylmercapto) and salts 703¹
- C₉H₈AsN₂O₂ Benzenearsonic acid 2 formyl 4,5 methylenedioxy semicarbazone 3324¹
- C₉H₈BrNO Acetamide, *N* *p* bromobenzyl 4243¹
- C₉H₈BrNO₂ *p* Acetamide 3 bromo, 1808²
- C₉H₈BrNO₂ Alanine β (bromohydroxyphenyl) 288¹
- Alanine β (bromosalicyl) 288¹
- Carbanilic acid 3 bromo 2 hydroxy 5-methyl Me ester 5408¹
- C₉H₈BrNO₂ Benzene 1 bromo 2 ethoxy 4 methoxy 5-nitro- 2985²
- Pyromucic acid 5 acetamido 3 (or 4) bromo- Et ester, 4262²
- C₉H₈Br₂ Cumene, α , β -dibromo- 1817²
- C₉H₈Br₂O₂ Toluene 2,4 dibromo-3,6 dimethoxy 4538¹
- C₉H₈Br₂CIN₂S Benzothiazole 5 chloro 1 ethylamino, hydrotetrabromide 4881¹
- C₉H₈ClNO Acetamide *N* *p* chlorobenzyl, 4243¹
- C₉H₈ClNO₂ *m* Acetotoluene α chloro 6 hydroxy, 3347¹
- C₉H₈ClNO₂S Acetic acid, (2 amino-5-chloro *m* tolylmercapto) P 1095²
- C₉H₈ClNO₂S *p* - Toluene sulfonamide *N* chloroacetyl, 492¹
- C₉H₈ClNO₂ 2,5 Pyroledicarboxylic acid, 3 chloro 4 methyl Et ester, 962²
- C₉H₈ClN₂S Benzothiazophene, 4 chloro 1 ethyl, 4265²

- C₈H₁₂ClN₂O 8 Keto 8 indolo[3 2 1 6] acidane 6 d azomum chloride, 2998⁴
- C₈H₁₂ClN₂O 1 anilin chloro-semicarbazone 94¹
- C₈H₁₂ClN₂O Ketone trichloromethyl 3,4 5-trimethyl pyrrol 3005⁴
- C₈H₁₂ClN₂O 3 Pyrrolo[carboxylic acid 5 hydroxy 4 methyl] 2 (trichloromethyl) Et ester 4009⁴
- C₈H₁₂HgO₂ Toluene o(m and p) (acetoxymercuri) 928
- C₈H₁₂HgO₂ Benzene acid ethylmercuriester capto), 1521⁴ 490⁷
- C₈H₁₂HgO₂ Anisole o and p) acetoxymercuri) 928¹
- C₈H₁₂NO Acetamide 1 p iodobenzyl 4243⁴
- C₈H₁₂N₂O Hydrocarbyl styryl 3 amino HCl 1589⁴
- C₈H₁₂N₂O₂ Benzothiazole 1 amino 5 ethoxy P 964⁴
- C₈H₁₂N₂O₂ Glyoxime p tolyl 1489⁴
- C₈H₁₂N₂O₂ Pyridine 3 nitrile 1 2 3 6 7 a benzhydro 2 keto 4883⁴
- C₈H₁₂N₂O₂ Anthranilic acid 1 glycol 492⁴ 428⁴
- Benzofurazan 4 methoxy 3 5 dimethyl oxide 1224⁴
- Benzene acid m glycylamino- 4258
- Glyoxime 3 p-phenylcarboxyl Me ester 2999⁴
- 1 Propanol 1 4 isoxazolyli 1 (5 isoxazolyli) 515⁴
- C₈H₁₂N₂O₂ Phenyl mercaptan 4 5-dihydro-2 imidazolyli thiosulfate 1 28⁴
- C₈H₁₂N₂O₂ Acetamide 2 hydroxymethyl 4 nitro- 4244⁴
- Carbanilic acid p nitro Et ester 2686⁴
- C₈H₁₂N₂O₂ Anisole 3 5 dimethyl 2 4 di nitro- 930
- Carbanilic acid 2 hydroxy 4 nitro Et ester 1246
- Tyrosine 2 nitro- 2603⁴
- C₈H₁₂N₂O₂ Pyromucic acid 5 acetamido 3(or 4) nitro- Et ester 4262
- C₈H₁₂N₂O₂ Alanine 1 m nitrophenylsulfonyl 211⁷
- C₈H₁₂N₂O₂ 1 2 Propanediol 3 2 4 dimethoxyphenoxyl 39¹
- C₈H₁₂N₂S Benzothiazole 5 methyl 1 methyl amino- and hydroxybenzamide 103⁴
- Benzothiazolone 1 imino 2 5 dimethyl Hl 103
- Thiocyanic acid p-dimethylaminophenyl ester P 53, 54¹
- C₈H₁₂N₂O₂ Desoxyuric acid 9 allyl 7 methyl and HCl 3, 366⁴
- C₈H₁₂N₂O₂ Uric acid 9 allylmethyl 3-thio- 3666⁴
- C₈H₁₂N₂O₂ Isoxanthine 8 (carboxymethyl mercapto) 9-ethyl 3966⁴
- Theobromine 8 (carboxymethylmercapto) and 1, 2, 3, 4 3966⁴
- Theophylline 8 (carboxymethylmercapto) 3966⁴
- C₈H₁₂N₂O₂ Allylamine 1 urate 70¹
- C₈H₁₂N₂O₂ Allylamine styphate 70¹
- C₈H₁₂O Acetophenone p methyl 4340⁴ 456⁷
- p-Anol, 4277⁴
- Benzyl alcohol a vinyl 42⁷
- Chavicol, 42⁷
- Cinnamic alcohol 181⁷ 4⁷
- Fiber, o and m tolyl vinyl P 302⁷
- Hydrocinnamaldehyde, 42⁷
- C₈H₁₂O Acetic acid, benzyl ester, 8⁴ 2700⁴ 3820⁴
- Acetophenone p-methoxy 515⁴ 4567⁴
- Benzene acid Et ester, 1798¹ 2⁷ 03¹ 3311⁴ 3916⁴
- Hydrocinnamic acid 4903⁴
- Indandiol, 694⁴ 1798⁴
- Lactaldehyde p-phenyl, 1819⁴
- Mesitylic acid, 3338⁴
- 3 Pentenoic, 1 (2 furyl), 1245⁴
- 2 Propanone 1 hydroxyphenyl, 1484⁴ 2428⁴
- Pyrocatechol, 4-allyl 4277⁴
- 4-propenyl 42⁷, 5409⁴
- Quinone 2-ethyl 6-methyl 5410⁴
- Lydic acid 3338⁴
- C₈H₁₂O, Benzaldehyde 3 ethoxy-4-hydroxy, P 3363⁴ P 5678⁴
- Benzene acid hydroxy Et ester, 1031⁴
- , o-methoxy Me ester 3326⁴
- 2 Furanylacetic acid, Et ester 1245⁴ 2143⁴
- Glycol monobenzoate 3311⁴
- Isoxylic acid, 4 hydroxy 935⁴
- Propiophenone 2 4-dihydroxy, 504⁴
- Salicylic acid, Et ester 3325⁴
- Toluic acid methoxy 1814⁴ 2134⁴
- Tropic acid 1813⁴
- Veratraldehyde, 4277⁴
- 3 4 Lydic acid 6-hydroxy, P 3015⁴
- C₈H₁₂O, Acetic acid, (p-anisoyl), 930⁴
- Phloropropiophenone 4250⁴
- γ Resorcylic acid 3 4-dimethyl, 258⁴
- Succinic anhydride (2 ketocyclopentyl), 4531⁴
- Veratraldehyde hydroxy, 707⁴ 4566⁴
- C₈H₁₂O, Fural dicarboxyl 4580⁴
- o-Veratrinic acid 6 hydroxy 4568⁴
- C₈H₁₂O₂ Hydratropic acid, β sulfo- salts, 4564⁴
- Hydrocinnamic acid β(?) sulfo-, and salts, 4564⁴
- 1 Phenol 4 sulfonic acid Me ester, acetate 3326⁴
- C₈H₁₂O₂, Acetic acid α α (furaldithio)bis, 4393⁴
- C₈H₁₂O₂, 1, 4, 5⁴
- C₈H₁₂O₂, 1, 2 Cyclopentanedicarboxylic acid, 3 5-diketol-2-dimethyl 3631⁴
- C₈H₁₂O₂, Salicylic acid 5-sulfo-, di Me ester, 3322⁴
- C₈H₁₂As₂N₂O₂ 6 Benzimidazolearsonic acid, 1 2-dimethyl, 4265⁴
- C₈H₁₂As₂N₂O₂ Arsanilic acid 1 (carbamyl acetyl) and 1, 2, 3 540⁴
- C₈H₁₂Br Mesitylene 2 bromo-, 2124⁴
- Toluene o-(β bromomethyl) 1232⁴
- C₈H₁₂BrN₂S Urea α 3 bromo-β tolyl β-methylthio. 104
- C₈H₁₂Cl Pseudocumene α-chloro-, 515⁴
- C₈H₁₂ClN₂S Urea, α β chlorophenyl β-ethylthio- 4881⁴
- C₈H₁₂ClN₂O Theobromine 1 (β chloroethyl) 1050⁴
- C₈H₁₂ClO Ether p (chloromethyl)benzyl methyl 4540
- C₈H₁₂Cl₂O Ether p iodophenyl isopropyl, dichloride, 4245⁴
- Ether p-iodophenyl propyl, dichloride, 4245⁴
- C₈H₁₂IMg 2 Mesitylmagnesium iodide, 3642⁴
- C₈H₁₂IN₂O Urea α (β iodomethyl) β phenyl, 3617⁴
- C₈H₁₂N₂ Aniline, 1 allyl 900⁴

- Propylamine styphnate "0"
Trimethylamine st phosphate 70
C₈H₁₁N₃O₃ Guandine α β hydroxyethyl
isocarbamate
C₈H₁₁N₃O₃ Anisole dimethyl 930 935¹ 2424²
Benzyl alcohol α dimethyl 1813¹
 α ethyl 3643¹
Ithyl isopropyl phenyl 9953¹
Isobutyl propyl 179¹
Mesityl 4533¹
Ethethyl alcohol α methyl 504¹ 1817¹
1818¹
Phenol β methyl 2706¹
Pheno β isopropyl P 303¹
110000 13 phenyl 1717¹ 1613¹ 4277¹
C₈H₁₁N₃O₃ Benzaldehyde dimethyl acetal 1798¹
Benzyl alcohol β methoxy methyl 4540¹
Cresol ethoxy 39¹
3 Cyclopentenone 2 allyl 9 or 5)
methyl 1024¹
Guacac 4 ethyl 486¹
Hydroquinone α ethyl 6 methyl
5410¹
 α octatrienol acid Me ester 683¹
3 pentanone 1 furfuryl 124¹
Phenyl methyl 5408 5689¹
C₈H₁₁N₃O₃ Anisyl alcohol 3 hydroxy α methyl
4418¹
Benzene 13 trimethoxy 2134¹
Cyclopentanecarboxylic acid 1 carboxy 3
methyl anhydride 4234 5403¹
Lauranpropionic acid Et ester 1245¹
Phenol ethoxy methoxy "0" 5¹
3-oxomucic acid Bu ester 3614¹
C₈H₁₁N₃O₃ Poluenesulfonic acid Et ester
2704¹
C₈H₁₁N₃O₃ 5 β proheptanedicarboxylic acid
4855¹
C₈H₁₁N₃O₃ Toluenesulfonic acid methoxy
Me ester 3322¹
C₈H₁₁N₃O₃ Succinic acid 2 ketocyclopentyl
4531¹
Xylal diacetyl 5147¹
C₈H₁₁N₃O₃ Pentanetetra-carboxylic acid 1803¹
C₈H₁₁N₃O₃ Barbituric acid 5-bromo 5-iso-
amyl 5400¹
C₈H₁₁N₃O₃ Mesitylenesulfonfyl fluoride di-
amino 283¹
C₈H₁₁N₃O₃ Pyridine 2 diethylamino 5 iodo
P-45¹
C₈H₁₁N₃O₃ Aniline γ ethyl N methyl 3225¹
Aniline γ propyl 1717¹ HBr 4241¹
Benzylamine α ethyl 3090¹
 Δ α Cyclopentanecarboxylic, α 3 di-
methyl 4234¹
Mesityl and HCl 4533¹
Isobutylamine methyl, 3070¹ and HCl
2709¹
Trotylamine γ phenyl 3090¹
Pyridine 2 butyl 1820¹
— 2 3 4,6 tetramethyl 3652¹
Toluadine, N N -dimethyl 1,01¹ 2385¹
C₈H₁₁N₃O₃ Aniline, m propoxy and HCl ,
5669¹
Benzyl alcohol α (methylaminomethyl),
P 3363¹ P 4540¹
Ketone 2,4-dimethyl 3 pyrrol ethyl
3010¹
Norephedrine, 146¹ 3091¹ and HCl ,
3617¹
Ithethylamine, methoxy, 2983¹ and
sulfate, 2133¹ 5410¹
2(1) Pyridine, 4 8-dimethyl, 1529¹
Xylidine, methoxy, 930¹ 2424¹
C₈H₁₁N₃O₃ Acid from (carboxymethyl) keto 4-
methyl 3-pyrrolidinemethylmalonic
acid, 4263¹
Benzyl alcohol, α (α -aminomethyl) - β
hydroxy, 146¹
—, α (α -aminomethyl) - α methoxy, 5161¹
Epamine, 745¹
Pentenoic acid, cyanomethyl, Et ester,
2696¹
Pyrocatechol, 4-(γ aminopropyl)-, 2194¹
2 Pyrrolecarboxylic acid 1 butyl, 951¹
—, 5-ethyl-, Et ester, 3008¹
Pyrrolepropionic acid, Et ester, 1521¹
— 5-methyl-, Me ester, 3647¹
Spirocyclopentane - 1,3 - pyrrolidine]
2,5-dione, 3 methyl, 4234¹
Sympathol, 745¹, 2195¹, 3127¹, 4045¹,
4047¹ HCl , 5954¹
Sysephrine, 2486¹
Veratrylamine, HCl , 1225¹
C₈H₁₁N₃O₃ (See also *Adrenalin*)
Morbic acid, N salt, 1893¹
Protocatechuy alcohol, α (α -aminomethyl),
3072¹
4 Pyranecarboxylic acid, 4-cyanotetrahydro-,
Et ester, 681¹
C₈H₁₁N₃O₃ Benzenesulfonamide β (hydroxy
methyl) V , N -dimethyl, 928¹
C₈H₁₁N₃O₃ Glutaric acid, α -cyanomethyl β methyl,
1803¹
C₈H₁₁N₃O₃ Xylenesulfonic acid, aminomethoxy,
 N salt 930¹, 2424¹
C₈H₁₁N₃O₃ Uridinephosphoric acid, 305¹
C₈H₁₁N₃O₃ Guandine, α -(α -methylbenzyl), and
sulfate, 4534¹
C₈H₁₁N₃O₃ α , γ , ϵ -Octatrienaldehyde, semi-
carbazone, 683¹
C₈H₁₁N₃O₃ 3 Hydantoinacetone acid, Et ester,
4228¹
C₈H₁₁N₃O₃ Semicarbazide, 2 ethyl-4 phenyl 3
thio-, 4862¹
C₈H₁₁N₃O₃ Biguanide, α -tolyl 2421¹
C₈H₁₁N₃O₃ Apomene, 3326¹
Cyclic diolene b 164-6°, from brown coal
tar oil 3463¹
Santonin, 3647¹
Tricyclo[2.2.1]heptane, 3,3-dimethyl,
3638¹, 5672¹
C₈H₁₁N₃O₃ α -Arsanilic acid, N propyl, 4863¹
C₈H₁₁N₃O₃ m -Arsanilic acid, N β hydroxy
ethyl-4 methyl, P 3439¹
Arsanilic acid N - γ hydroxypropyl, P 3439¹
C₈H₁₁N₃O₃ Trimethyl(phenylsulfonyl)am-
monium chloroaurate, 5150¹
C₈H₁₁N₃O₃ Prolene, 1 (α -bromobutyl), 77¹
C₈H₁₁N₃O₃ Trimethyl(phenylsulfonyl)am-
monium chloride, 5150¹
C₈H₁₁N₃O₃ Trimethylphenylammonium mer-
curiodide 689¹
C₈H₁₁N₃O₃ Benzylamine, β -dimethylamino-, 4243¹
C₈H₁₁N₃O₃ Benzyl alcohol β -amino- α -(α -amino-
ethyl), HCl , P 3363¹
Benzyl alcohol β -amino- α -(methylamino-
methyl), HCl , P 3363¹
2 Pyrrolecarboxamide 1 butyl, 951¹
C₈H₁₁N₃O₃ Pyrimidine, 2,4-dimethoxy 5-methyl,
84¹
2(1) Pyrimidine 4-ethoxy 1-ethyl 5-methyl,
84¹
C₈H₁₁N₃O₃ 2-Pyrroldinacarboxamide N , 1-di-
acetyl, 3995¹
C₈H₁₁N₃O₃ 4-Pyrimidinolaldehyde, 1,2,3 6

- tetrahydro-6-keto 2 thio keto, di Et acetal, 3001¹
- C₆H₁₁N₃O₄ Alanil N anhydroglucosamine anhydride, 1803⁴
- 3 Hydantoicacetic acid butyl ester 4228⁷ sec butyl ester, 4228⁷ isobutyl ester, 4228⁷
- C₆H₁₁N₃O₄ Dehydroalanil N glucosamine anhydride, 1805⁴
- C₆H₁₁N₃O₄ (See also *Carnosine*)
Histidine N alanil, 5180²
- C₆H₁₁O 2 Butanone 3 Δ¹-cyclopentenyl 260⁴
- 2 Butanone 3-cyclopentylidene-, 280⁴
- Camphenone, 3638⁷ 3647¹
- Cyclohexanol, 1-ethynyl-4-methyl, 4857⁴
- Δ¹-Cyclohexenecarbaldehyde, 4,6-dimethyl, P 1037⁴
- Δ¹-Cyclohexenone, 4 isopropyl 4532⁷
- 2 Indanone, hexahydro- 3333^{1,2}
- ketone, methyl 4 methyl Δ¹-cyclohexenyl 4857⁴
- 2 Propanone, 1 cyclohexenyl-, 2137¹
- , 1-cyclohexylidene- 2137¹
- 4,6-Sporononan-2-one 4531⁴
- C₆H₁₁O₄ Δ¹-Cyclohexanecarboxylic acid methyl 280⁴
- Δ¹-Cyclohexanecarboxylic acid methyl 280⁴
- Δ¹-Cyclohexenone, 3 hydroxy 5-isopropyl 3319⁴
- 3 hydroxy 5-p opyl 3319⁴
- Cyclopentanone allyl 2 hydroxy-3(or 5) methyl-, 1024⁴
- Sorbic acid methyl, Et ester, 5663⁴
- C₆H₁₁O₄ 2 5 8-Nonanetriene, 3662⁴
- C₆H₁₁O₄S 1 4-Thiopyran-3-carboxylic acid tetrahydro 4 keto 2 6 dimethyl, Me ester 952⁴
- C₆H₁₁O₄S Trimethylsulfonium benzenesulfonate, 5150⁴
- C₆H₁₁O₄ Caryophyllenic acid, 2988⁷
- Cyclohexanone, 2 hydroxy 4 5 (isopropylidenedioxy) (?) 3349⁴
- Cyclopentanecarboxylic acid 1-carboxy-3-methyl-, and di Ag salt 4234⁴ 5403⁷
- 1,1 Cyclopentanediacetic acid 5664⁷
- Cyclopentanemalononic acid, 3-methyl, 4243⁴ and di-Ag salt, 5403⁷
- Cyclopropanedicarboxylic acid di Et ester 3625⁷
- Glutaconic acid tetramethyl, 4530⁴
- Mesaconic acid, di Et ester 36^{1,2}
- C₆H₁₁O₄ 5 6-Anhydroacetoneglucose, 2120⁷
- Anhydroglucose, acetone-, 85⁴
- 3 6-Anhydroglucose, acetone-, 2121⁴
- Rhamnonolactone, trimethyl, 277⁴
- Xylal, diacetylhydride-, 5147⁴
- C₆H₁₁O₄ 1,1,3-Pentanetricarboxylic acid, 2 methyl, 1803⁴
- 1,1 3 Propanetricarboxylic acid 1,2 3 tri methyl, 82¹
- C₆H₁₁O₄S Fructuronic-3 sulfonic acid, 1 2 acetone-, and di K salt, 2122⁷
- C₆H₁₁O₄S Furfuraldicarboxylic acid, acetone-tri K salt, 2122^{7,2}
- C₆H₁₁Si Salsone trimethylphenyl, 4536⁴
- C₆H₁₁AsBrN Diethylgold bromide, compd with pyridine 1216⁴
- C₆H₁₁BrN₃O₄ Glycine, N-(N bromoacetyl valyl), 2093⁷
- Valine, N-(N bromoacetyl glycidyl), 2093⁷
- C₆H₁₁Cl Norpinane, 3(or 4)-chloro-7,7-di methyl, 3326⁴
- C₆H₁₁IN₃ Ethylmethylphenylazonium iodide 2952¹
- C₆H₁₁N Pyrolic dimethylpropyl, 3009⁴ 3010⁴
- C₆H₁₁NO Δ¹-Cyclohexanecarboxamide 2(and 3) methyl 280⁴
- Δ¹-Cyclohexanecarboxamide 2 methyl, 280⁴
- ketone methyl 4 methyl Δ¹-cyclohexenyl oxime 4857⁴
- Quinolizn 1(9a)-one hexahydro- 300^{7,4}
- C₆H₁₁NO₃ Butyric acid α cyano-α-ethyl, Et ester 1217⁴ 2116⁴
- Isovaleric acid α cyano-α isopropyl and Ag salt, 1219⁴
- C₆H₁₁NO₃ Malonic acid acetamido-, di Et ester 5398⁷
- C₆H₁₁NO₃ Malonic acid amido- di Et ester oxalate 919⁴ 1219⁴
- C₆H₁₁N₃O Norcamphor 3 methyl semicarbazone 3647¹
- C₆H₁₁N₃O₃S (See also *Thiomine*)
1 3 4 6 Thiodiazin 5 ol 2 isobutyl ammo- Ac deriv 3002⁴
- C₆H₁₁N₃O₄ Glycine Y (Y polyglycidyl) 2974⁴
- C₆H₁₁N₃O₄ 4 Imidazolecarboxamide, 4 (α β dimethylcarbamido)tetrahydro- 2 5-di keto N,1 dimethyl, 3967¹
- C₆H₁₁O₄P 1 Furfuraldicarboxylic acid 1 phosphoric acid β acetone- tri Na salt 5148⁴
- C₆H₁₁ Hydrogenation product b 170 2⁴ of compd from brown-coal tar oil 3463⁴
- 3 Nonine 2112¹
- C₆H₁₁BrNO₂ Leucine, Y (α-bromopropionyl) 493¹ 5143¹
- C₆H₁₁BrNO₂ Glucosamine Y (α bromopropionyl) 1803⁴
- C₆H₁₁ClHgN₃O₄ Malonamide α-α-bis(chloromercuro) N,N dipropyl 1219⁴
- C₆H₁₁HgN₃O₄ Acetamide α-cyano-α (hydroxy mercuri) N isohexyl, 3619⁴
- C₆H₁₁INO₄ Cyclohexanecarboxylic acid, 2 iodo-, Et ester 3617⁴
- C₆H₁₁O₄ Camphenilone, hydrazone, 3639⁴
- C₆H₁₁N₃O₄ Acetamide, α cyano N isohexyl 3619⁴
- C₆H₁₁N₃O₄ Proline, 1 alanyl, Me ester 77⁴
- Proline 1 (α-aminobutyryl), 77⁴
- 2 Pyrothinecarboxamide, 1 α hydroxy butyryl, 77⁴
- C₆H₁₁O Cyclohexanone, 4 isopropyl 4532⁷
- Cyclohexanone 2 methyl, 3972⁴
- Cyclopentanone 2 isopropyl 5 methyl, 508¹
- Ketone methyl 4 methylcyclohexyl, 4857⁴
- γ-Santenol 3647¹
- C₆H₁₁O₄ Enanthaldehyde α-keto-α,α-dimethyl, 3354⁴
- α Hexenone acid, α ethyl β methyl, 4524⁴
- Hydroxysorbic acid, α ethyl β methyl, 4524⁴
- C₆H₁₁O₄ Acetoacetic acid α-ethyl-α-methyl, Et ester 495⁴
- Caproaldehyde, α hydroxy γ-methyl-, acetate, 2975⁴
- Levulinic acid, Bu ester, 496⁴, 5398⁷ isobutyl ester 496⁴, 5398⁷
- Pelargonic acid, keto-, 1483⁴, 3972⁴
- C₆H₁₁O₄ (See also *Atelasic acid*)
- 2 Furancarboxaldehyde tetrahydro- 5 methoxy 5-methyl (?) acetate 488⁴
- Glucal trimethyl 4231⁴
- Glutamic acid, di Et ester, 1798¹
- , β,β-dimethyl-, 5664⁷
- , α,α,β,γ tetramethyl, 4530⁴
- Malonic acid, diisopropyl, and salts 1219^{4,2}

- dipropyl 5664¹ diis 5823¹
ethyl di Et ester 917¹
- 3 Pyranol tetrahydro 6 methoxy 6 methyl acetate 488¹
- C₈H₁₆O₈S₂ Acetic acid α α (methylenedithio) as di Et ester 4393¹
- C₈H₁₆O₈ Glucosidonic lactone trimethyl 498¹
Levoglucosan trimethyl 1496
1² Propanediol 3-ethoxy diacetate 916¹ 269²⁴
Rhamnolactone trimethyl 1222¹ 5615¹
Xylose monomethylacetone 5321¹
- C₈H₁₆O₈ Fructose acetone 2122¹
8 Galactonolactone trimethyl 2118¹ 4835¹
Galactose monoacetone 485¹
Glucose acetone 86¹ 9120¹ 331a
Glucos di ethylenemethyl 5147¹ 5401¹
Mannonolactone trimethyl 4029¹
Pentaerythritol diacetate 180¹
Rhamnose γ acetylmethyl 86¹
— methyl monoacetate 86
- C₈H₁₆O₈ Glucuronic acid 2 3 4 trimethyl 2118¹
- C₈H₁₆O₈ Mucic acid 2 3 4 trimethyl 2118¹
- C₈H₁₆O₈ Fructose 3 sulfonic acid α acetone and salts 21, 2¹
- C₈H₁₆O₈ Cyclohexanecarboxylic acid dithio-Et ester 500
- C₈H₁₆AlO₈ 2 4 Pentanedione, diethylgold de riv 1216¹
- C₈H₁₆BrO Ether α (α bromopropyl) Δ¹ butenyl ethyl 2684¹
- C₈H₁₆ClO₈ Pentamethanes perchlorate 1 5 bis(dimethylamino) 1879¹
- C₈H₁₆ClO Cyclopropyl chloride β-methyl 3627¹
- C₈H₁₆IN₂ 2 5 Dihydro 1 2 2 α 5 penta methyl 1 pyranium iodide 516¹
- C₈H₁₆N Base ba 43-5¹ from reduction of compd from lupanonic acid and chloroacetate 300¹
Caprylamine β-methyl 3627¹
Pelargonic acid 5373¹
Quinolizone, octahydro- and chloroacetate 300¹
- C₈H₁₆NO Cyclooctanone 2 methyl oxime 3972¹
Quinolizone 1-ol octahydro- 300¹
- C₈H₁₆NO₂ 2 Morpholine 4 ethyl 3 6 6-trimethyl and HCl 5143¹
- C₈H₁₆NO₂ Malonic acid α α-disopropyl and Ag salt 1219¹
- C₈H₁₆N₂O Cyclooctanone semicarbazone, 3972¹
α Heptenaldehyde α-methyl semicarbazone 5140¹
Δ¹ 3-Heptenone, 5-methyl, semicarbazone 3312¹
Δ¹ 2 Hexenone 3 4 dimethyl semicarbazone 3312¹
1 Piperidinecarboxylic acid isopropylidene hydrate, 4269¹
- C₈H₁₆N₂O₂ 2 Pyrrolidinecarboxamide 1 (α-aminopyrrolidyl) 77¹
- C₈H₁₆N₂O₂ Levulinic acid isopropyl ester semicarbazone, 496¹ Prester semicarbazone 456¹
- C₈H₁₆AsN O₈ Arsenic, tricysteryl 40¹
- C₈H₁₆AsCl₂NO₂ Choline acetylcholine, chloroacetate 331a¹
- C₈H₁₆AsN Dibutylgold cyanide 4220¹
Dibutylgold cyanide, 4220¹
- C₈H₁₆BrClO₂ Methane, amoxy(β-bromo-β-chloropropoxy), 2979¹
- C₈H₁₆ClO₂ Methane amoxy(β, β'-dichloropropoxy), 2979¹
- C₈H₁₆N₂O 2, 3 - Dihydro - 1, 2, 2, 5, 5 - penta methyl 1 pyranium hydronide, 2728¹
- 2 Pyranol, 1 2 3, 6 - tetrahydro 1, 3 3 6, 6-pentamethyl, 2728¹, and chlorophenolate, 516¹
- C₈H₁₆N₂O₂ Pentane, 2 4-diacetamido-γ, 4223¹
- C₈H₁₆N₂O₂ Glycine, γ (γ-methylamino), 2627¹
- 3 Pentanol, 3-ethyl, allophanate, 2116¹
- C₈H₁₆N₂O₂ Compd from methylephedrine and MeI 77 5894¹
- C₈H₁₆O Cyclohexanecarbinol, α, 4-dimethyl, 4857¹
Cyclohexanol isopropyl, P 303¹ 4234¹, 4533¹
—, 2 propyl 4234¹
Nonanone, 5322¹, 5662¹
- C₈H₁₆O₂ Acetic acid heptyl ester, 1137¹
Caproic acid methyl, Et ester, 3626¹, 484¹
Caprylic acid β-methyl, 3627¹
Euanthac acid Et ester, 5323¹
Pelargonic acid 148¹ 2014¹
Senecioaldehyde di Et acetal, 2414¹
Valeric acid α β-dimethyl, Et ester, 4845¹
- C₈H₁₆O₂ Butyric acid α-ethyl β-hydroxy-α-methyl Et ester, 2686¹
Caproic acid β-hydroxy β-methyl, Et ester, 4524¹
Carbonic acid di Bu ester, 3620¹
- C₈H₁₆O₂ Capron mono-, 5397¹
5 m Dioxanecarboxyl 5 (methoxymethyl) 2 2-dimethyl, 1801¹
2 Propandiol 1 3-diethoxy, acetate, 916¹, 2692¹
- C₈H₁₆O₂ Glucosidose, trimethyl, 498¹
- C₈H₁₆O₂ Glucoside, α-propylthio, 4232¹
- C₈H₁₆O₂ Fructofuranose 1, 3, 4-trimethyl, 2978¹
Galactose 2 3, 4-trimethyl, 2118¹
Glucosidonic acid trimethyl, Ba salt, 498¹
Trimethylhexose, 4577¹
- C₈H₁₆Br Octane 1 bromomethyl-, 3627¹, 3628¹
- C₈H₁₆ClO 1 Nonanol, 9-chloro-, 5395¹
- C₈H₁₆CuS Nonyl mercaptan, Cu deriv, 2331¹
Octyl mercaptan, α-methyl, Cu deriv, 2331¹
- C₈H₁₆N Pyrrolidine 2, 2-diethyl 1 methyl, and salts 102¹
- C₈H₁₆NO Caprylamide β-methyl, 3627¹
Ethanamide, γ, γ-dimethyl, 2973¹
2 Nonanone, oxime, 5322¹
1 Piperidinebutanol 1813¹
Pivalaldehyde β-diethylamino, P 234¹
- C₈H₁₆NO₂ Caproic acid α-dimethylamino, Me ester 1218¹
Leucine Prester HCl 490¹
Pelargonic acid 8-amino- 489¹
- C₈H₁₆NO₂ Cyclohexanecarboxamide, γ propyl, 1812¹
- C₈H₁₆N₂O 3 Heptanone 5-methyl, semicarbazone, 1217¹, 3312¹
2-Hexanone 3 4-dimethyl, semicarbazone, 1217¹, 3312¹
- C₈H₁₆N₂O₂ 3 Heptanone, 5 - hydroxy - 5-methyl, semicarbazone, 3312¹
2 - Hexanone, 3 hydroxy - 3 4 - dimethyl, semicarbazone, 3312¹
- C₈H₁₆ Heptane, dimethyl, 4846¹, 5137¹

- Nonane, 296⁷, 3889⁸
 Octane methyl 3628^{1,2}
 C₁₀H₁₇NO 1 β Methoxyethyl 1 methyl
 piperidinium chloroaurate, 1814³
 C₁₀H₁₇NO₂ (4 Carboxyamy) trimethylam
 monium chloroaurate 1218⁴
 C₁₀H₁₇NO 2 (β Hydroxyethyl) 1 1 dimethyl
 piperidinium iodide 1814³
 C₁₀H₁₇N₂O Propionaldehyde β hydrazino- di Et
 acetal acid oxalate 4237⁵
 C₁₀H₁₇N₂S Tetraethylammonium thioacetate
 2301⁶
 C₁₀H₁₇N₂ Azelamidine di HCl 5663⁷
 C₁₀H₁₇O 2 Heptanol, 2 α-dimethyl 4846⁸
 5-Nonanol 4234⁹
 Octanol methyl 362¹⁰ 3628¹¹ 4214¹²
 4846¹³
 3 Pentanol, 2,2 4 4 tetramethyl 4¹⁴
 C₁₀H₁₇O₂ Methane dibutoxy P 243¹⁵
 1 9 Nonanediol 1 98¹⁶
 C₁₀H₁₇O₂ 2 Propanol 1 3-diisopropoxy 116
 2692¹⁷
 2 Propanol 1 3-diisopropoxy 916 9¹⁸
 C₁₀H₁₇S Nonyl mercaptan 7¹⁹
 C₁₀H₁₇As Arsine tripropyl 148²⁰
 C₁₀H₁₇AsBr₂ Arsine tripropyl dibromide 148²¹
 C₁₀H₁₇AsCl₂ Arsine tripropyl dichloride 148²²
 C₁₀H₁₇AsCl₂Hg Arsine tripropyl HgCl₂ deriv
 148²³
 C₁₀H₁₇As₂ Arsine tripropyl diiodide 148²⁴
 C₁₀H₁₇AsO Arsine tripropyl oxide 148²⁵
 C₁₀H₁₇AsO₂S Arsine tripropyl sulfate 148²⁶
 C₁₀H₁₇As₂S Arsine tripropyl sulfide 148²⁷
 C₁₀H₁₇Bi Bismuthane tripropyl 29 0²⁸
 C₁₀H₁₇N Octylamine γ methyl 36²⁹
 Tripropylamine salts 70³⁰
 C₁₀H₁₇NO 2 Butanol 1-diethylamino 3 methyl
 and HCl 2690³¹
 C₁₀H₁₇NO₂ (4-Carboxyamy) trimethylammonium
 hydronide 1218⁴
 C₁₀H₁₇N₂ 2 Thiazine 1 3 5 triethylhexahydro
 4023³²
 C₁₀H₁₇N₂O Semicarbazide 1 2 di sec butyl
 2416³³
 C₁₀H₁₇NO (β Methoxy α α dimethylpropyl
 trimethylammonium iodide 1814³⁴
 C₁₀H₁₇N₂O 2 Propanol 1-diethylamino-3-ethyl
 amine, P 1209³⁵
 C₁₀H₁₇Si Silicane triethylpropyl 4036³⁶
 C₁₀H₁₇ClN₂ (β Dimethylaminobutyl) trimethyl
 ammonium chloride 2691³⁷
 C₁₀H₁₇ClN₂O₂ (γ γ Diethoxypropyl) dimethyl
 hydrazonium chloride 4238³⁸
 C₁₀H₁₇N₂O₂ (γ γ Diethoxypropyl) dimethyl
 hydrazonium iodide 4237³⁹
 C₁₀H₁₇ClN₂O₂Pt (γ γ Diethoxypropyl) dimethyl
 hydrazonium chloroplatinate 4238⁴⁰
 C₁₀H₁₇N₂O₂ (γ γ Diethoxypropyl) dimethyl
 hydrazonium hydronide 423⁴¹
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetamide 4 5 6
 7 tetrachloro-1,3-diketo-, 332⁴²
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetyl chloride
 4,5,6,7 tetrachloro-1 3 diketo-, 332⁴³
 C₁₀H₁₇Br₂O₂ 1 2 Naphthoquinone, tribromo-
 946⁴⁴
 C₁₀H₁₇Br₂O₂ 1,2 4(3) Naphthalenetrioxone, 3 3 8
 tribromo-, 943⁴⁵
 1 4 Naphthoquinone, tribromohydroxy
 512⁴⁶, 946⁴⁷
 C₁₀H₁₇Br₂O₂ 2-Naphthalenesulfonic acid 5 6, 8
 tribromo- 1 4 dihydro 1,4 diketo
 K salt, 1516⁴⁸
 C₁₀H₁₇Br₂NO₂ 1,4 Naphthoquinone, aminotetra
 bromo-, 1516⁴⁹
 C₁₀H₁₇Br₂NO₂ 2(1) Naphthalenone 1 3 5 6
 tetrabromo-1 nitro- 946⁵⁰
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetic acid 4 5 6 7
 tetrachloro-1 3-diketo- 332⁵¹
 C₁₀H₁₇Br₂N₂O₂ 2 Isoundolneacetamide 4 7
 dibromo-1 3-diketo- 332⁵²
 C₁₀H₁₇Br₂O₂ Naphthoquinone dibromo 946⁵³
 946⁵⁴ 1517⁵⁵ compds with salts 487⁵⁶
 C₁₀H₁₇Br₂O₂ 1 4 Naphthoquinone dibromo
 hydroxy 512⁵⁷ 946⁵⁸
 C₁₀H₁₇Br₂O₂ Phthalic acid, 4 5-dibromo 946⁵⁹
 C₁₀H₁₇Br₂NO₂ 1 4 Naphthoquinone 8 amino-
 2,5 - tribromo-, 1516⁶⁰
 C₁₀H₁₇Br₂NO₂ 2(1) Naphthalenone tribromo 1
 nitro-, 949⁶¹
 C₁₀H₁₇Br₂ Naphthalene tetrabromo 398⁶²
 C₁₀H₁₇Br₂O₂ 2(1) Naphthalenone 1 1 3 6
 tetrabromo 94⁶³
 2 Naphthol tetrabromo- 946⁶⁴
 C₁₀H₁₇Br₂O₂ 1 5 Naphthalenediol 4 6 8
 tetrabromo 512⁶⁵
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacet nitrile 4 -
 dichloro-1 3-diketo 332⁶⁶
 C₁₀H₁₇ClN₂O₂S Pyridine 2 2 dithiois[3
 chloro-5-nitro-, 426⁶⁷
 C₁₀H₁₇Cl₂O₂ 1 2 Naphthoquinone dichloro-
 compds with salts 487⁶⁸
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetyl chloride 4 7
 dichloro 1 3-diketo 332⁶⁹
 C₁₀H₁₇Cl₂ Naphthalene tetrachloro- 1133⁷⁰
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetamide 4 5 6
 tetrachloro-1 3 diketo- 332⁷¹
 C₁₀H₁₇Cl₂O₂ 1(4) Naphthalenone, 2 3 4 4
 tetrachloro- 5810⁷²
 C₁₀H₁₇FN₂O₂ Naphthalene fluorotribromo- 4045⁷³
 C₁₀H₁₇N₂O₂ Furozan 3 4 bis(3 isoxazolylicar
 bonyl), 4549⁷⁴
 C₁₀H₁₇BrN₂O₂ Naphthalene 1 bromo 4 5
 dinitro- 3329 404⁷⁵
 C₁₀H₁₇BrN₂O₂S 4 β Naphthothiazolesulfonic acid,
 6-bromo- 4710⁷⁶ 487⁷⁷
 C₁₀H₁₇Br₂O₂ 1,2 Naphthoquinone, bromo-
 945⁷⁸
 C₁₀H₁₇Br₂O₂ 1 4 Naphthoquinone bromo
 hydroxy, 946⁷⁹, 1517⁸⁰
 C₁₀H₁₇Br₂O₂ 2 Naphthalenesulfonic acid 8
 bromo 5 6 dihydro 5 6 diketo
 K salt 1517⁸¹
 C₁₀H₁₇Br₂NO₂ 2(1) Naphthalenone dibromo 1
 nitro- 943⁸²
 C₁₀H₁₇Br₂NO₂ 2 Isoundolneacetic acid 4 7
 dibromo-1 3-diketo-, 332⁸³
 C₁₀H₁₇Br₂ Naphthalene tribromo-, 3955⁸⁴
 C₁₀H₁₇Br₂O₂ 2(1) Naphthalenone 1 1 3 tri
 bromo- 943⁸⁵
 2 Naphthol tribromo 943⁸⁶, P 4281⁸⁷
 C₁₀H₁₇Br₂O₂ Naphthalenediol tribromo-, 512⁸⁸
 943⁸⁹, 946⁹⁰
 C₁₀H₁₇Br₂O₂ 1 4,5 Naphthalenetriol, 2 6 8
 tribromo-, 512⁹¹
 C₁₀H₁₇Br₂NO₂ Compd m 121⁹², from 1 3 5 6-
 tetrabromo-2 naphthol and HNO₃ 946⁹³
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetamide 5
 chloro-1,3-diketo-, 332⁹⁴
 C₁₀H₁₇ClN₂O₂S 4 β Naphthothiazolesulfonic
 acid 6-chloro-, 487⁹⁵
 C₁₀H₁₇ClN₂O₂ 2 Isoundolneacetyl chloride 1 3
 diketo-(and 5) nitro-, 332⁹⁶
 C₁₀H₁₇Cl₂O₂ 1 - Naphthol 8 sulfonic acid,
 (chlorosulfonyl), sulfone, 4257⁹⁷
 C₁₀H₁₇ClN₂O₂ Crotonic acid, α β-dichloro-γ-

hydroxy γ phenylamino γ lactone
4

Isoctonic acid α β-dichloro γ hydroxy-γ
piperidine lactone 427³

Mazumbe α β-dichloro N-phenyl 422⁴
C₆H₄ClNO₂³ Isoindoloneacetyl chloride, 5
chloro 1,3-diketo 372³

C₆H₄ClNO₂ 2 Isoindoloneacetic acid, 4,7
1-chloro 1,3-diketo 372³

C₆H₄ClN₂O Hydantoin 1,3-dichloro 5-o-nitro-
benzal 400⁶

C₆H₄Cl₂Naphthalene 1,4-o-trichloro P 3014⁷
C₆H₄ClO₃ 1 Naphthol 2,4-trisulfonyl
chloride 475⁷

C₆H₄ClO₂ 1 Naphthalene 1,1,3,3,4
pentachloro 3,4-dihydro 946³

C₆H₄FN₂O₂ Naphthalene fluorodinitro 454³
C₆H₄N₂O₂ 1 Benzofurancarboxyl cyanide 174³

C₆H₄N₂O₂ 2 Isoindoloneacetonitrile 1,3-diketo-
4-anilino nitro 372

C₆H₄N₂O₂ Naphthalene trinitro 486³
C₆H₄N₂O₃ 4 β-Naphthoxadiazolesulfonic acid
6-nitro 48⁷

C₆H₄N₂O₃ 3 Indolecarboxylic acid α-7-di-
nitro 3349¹

Strycholicarboxylic acid dinitro 3349¹

C₆H₅ Benzene n and m) diethyl 4533
C₆H₅BrF₂N₂ 4 Bromo 1 naphthalene
diazonium borofluoride 4045⁷

C₆H₅BrCl Naphthalene 1 bromo 2 chloro
4,8

C₆H₅BrClO₂ 1 Naphthalene 1 bromo 1
chloro 946³

2 Naphthol 6 bromo 1 chloro 946³
C₆H₅BrF Naphthalene 1 bromo 4 fluoro-
4545

C₆H₅BrNO₂ Naphthalene 1 bromo 4 (and α)
nitro 3329¹ 4045⁷

C₆H₅BrNO₃ 1 Naphthalenesulfonic acid 4
(bromomino) 3,4-dihydro 3 keto
A salt 3331

C₆H₅BrN₂O₂ Hydantoin 1 bromo α o-
nitrobenzal 5400⁶

C₆H₅Br₂ Naphthalene dibromo 2714¹ 2715
3985¹

C₆H₅Br₂N₂O₂ 1 Isoindoloneacetamide 4,7
dibromo-1,3-diketo 33³

C₆H₅Br₂N₂S₂ Pyridine 2,2-dithiobis[5-chloro-
426⁷

C₆H₅Br₂O₂ 1 Naphthalene 1,1-dibromo-
946³

2 Naphthol dibromo 945³ 946³
C₆H₅Br₂O₂ Naphthalenediol dibromo- 512¹
946³

C₆H₅Br₂O₂ Naphthalenetriol dibromo- 512¹
946³

C₆H₅BrNO₃ 1 Naphthol 3 sulfonic acid
8-amino 5 (trichloro- 1516⁷

C₆H₅BrO₂ 2(1) Naphthalene 1,1,3,4,6,7
hexabromo 3,4,6,7-tetrahydro-
946³

C₆H₅ClFO₃ 2 Naphthalenesulfonyl chloride
6-fluoro 454³

C₆H₅ClNO₂ Cinnamoyl chloride 6-hydroxy,
9-1¹

C₆H₅ClNO₂ 2 Isoindoloneacetic acid 5-chloro-
1,3-diketo 33³

C₆H₅ClNO₃ 1 Naphthalenesulfonic acid 3
(and 4) (chloromino) 3,4-dihydro-
(and 2) keto, A salt 3331¹

1 Naphthalenesulfonyl chloride, 4 nitro,
290⁷

C₆H₅Cl₂ Naphthalene 2,6-dichloro, 4159¹

C₆H₅Cl₂N₂O₂ 2 Isoindoloneacetamide, 4,7-di-
chloro-1,3-diketo, 3329¹

C₆H₅Cl₂N₂O₃ 2 Naphthalenesulfonic acid, 5,8-
bis(chloromino) - 5,8-dihydro-, K salt,
3331¹

C₆H₅Cl₂N₂S₂ Pyridine, 2,2'-dithiobis[5-chloro-
426⁷

C₆H₅Cl₂O₂ 2(1) Naphthalene, 1,1-dichloro-
946³

2 Naphthol, dichloro-, 946³

C₆H₅Cl₂O₃ 1 Naphthalenesulfonic acid, 5,8-
dichloro-, Na salt P 3014⁷

C₆H₅Cl₂O₃ 1,5 Naphthalenedisulfonyl chloro-
ride, 3340⁷

C₆H₅Cl₂N₂Quinaldine, α 3,4 trichloro, 2430⁷
C₆H₅Cl₄Naphthalene 1,2,3,4,5,8 hexachloro-
1,2,3,4-tetrahydro-, 1133³

C₆H₅Cl₄N₂O₂ 2 Pyrrolecarboxylic acid, 4
cyano 3,5 bis(trichloromethyl)-, Et
ester, 698⁷

C₆H₅FN₂O₂ Naphthalene, 1 fluoro 4-nitro-,
4545¹

C₆H₅F₂ Naphthalene, 1,4 (and 1,5) difluoro-,
4545¹

C₆H₅N₂S₂ Pyridine, 2,2'-dithiobis[o]odo-,
4267⁷

C₆H₅N₂O₂ Isocyanic acid, 6-hydroxy-4
quinoxaline ester 954³

2 Isoindoloneacetonitrile, 1,3-diketo-,
3379³

C₆H₅N₂O₂ Naphthalene, dinitro-, 416¹, 4565¹
C₆H₅N₂O₃ 1,2,4 Diazonaphtholsulfonic acid,
3985⁷

2 Naphthol 4 sulfonic acid, 1 diazo-,
4797⁷

4 β-Naphthoxadiazolesulfonic acid 4877¹
C₆H₅N₂O₃ 1 Naphthol dinitro-, 1571¹, 1586¹,
1910¹

C₆H₅N₂O₃ 2 - Isoindoloneacetic acid, 1,3
diketo-4 (and 5) nitro, 3329¹

C₆H₅N₂O₄ Pyridazo[4,5-b]phthalazine-1,4,6,9
(2,3,7,8) tetrone, 1821¹

C₆H₅N₂O₄S₂ Pyridine, 2,2-dithiobis[5-nitro-
4267⁷

C₆H₅N₂O₄ Hydantoin, 1 nitro-5-o-nitrobenzal,
5400⁶

1 Naphthylamine, 2,4,5 trinitro-, 4876¹
C₆H₅N₂O₄ 2 Indolecarboxylic acid, 3,5,7-
trinitro- Me ester, 3348⁷

Strychol O-methyltrinitro-, 3349⁷
C₆H₅O₂ See Naphthoquinone

C₆H₅O₂ Juglone 1632¹

1,4 Naphthoquinone 2-hydroxy, 945⁷,
1241¹

C₆H₅O₂ 1 Benzofuranyloxylic acid, 1245⁷
Fural, dioxide, 261¹

C₆H₅O₂ Hemimellitic acid, 4,5-methylene-
dioxy, 3344¹

Pyromellitic acid 1821¹
C₆H₅BrF₂N₂ 1 Naphthalenediazonium boro-
fluoride, 4541¹

C₆H₅BO Naphthalene, 1 (and 2) boryl, 927¹
C₆H₅Br (See also Naphthalene, bromo-)

Benzene 1 (m bromovinyl) 2-ethyl-,
4537¹

C₆H₅BrClNO₂ Acetic acid (4-bromo-5-
chloro-2-cyano-m-tolylmercapto),
P 3667⁷

C₆H₅BrCl₂N₂O₃ 3 Pyrazolone 4-bromo-1
(2,4-dichlorophenyl) 5-methyl,
3342¹

C₆H₅BrHg Naphthalene, (bromomercury),
3979⁷

- C₁₀H₇BrO** 2 Naphthol bromo 945¹ 946²
C₁₀H₇BrO₂ 1,2 Naphthalenediol 3 bromo , 945⁴
C₁₀H₇BrN 1 Naphthylamine, 2,4 dibromo , 1516⁷
C₁₀H₇BrNO₃ Naphthalenesulfonic acid, amino-dibromo-, 1516⁷
C₁₀H₇BrNO₃S 1 Naphthol 3 sulfonic acid 6 amino 5 7-dibromo-(?) 1516⁸
C₁₀H₇BrNO₃S₂ 2,7 Naphthalenedisulfonic acid 4 amino 1 3(?) dibromo 5 8 di hydroxy 1517¹
C₁₀H₇BrN₂O₂ Benzoxazole 6 acetamido 3 4 5-tribromo 1 methyl, 2129¹
C₁₀H₇BrN₂O₂ Benzoxazole 4 (N bromo acetamido) 5 5 6 6 tetrabromo 5 6 dihydro-1 methyl, 2128¹
C₁₀H₇Cl See *Naphthalene chloro*
C₁₀H₇ClHg Naphthalene (chloromercuri) 927¹, 928²
C₁₀H₇ClN₂O₂ Lepidine 2 chloro 6 nitro 299²
C₁₀H₇ClN₂O₂ 2 Isoindolineacetamide 5 chloro-1 3-diketo 332²
C₁₀H₇ClN₂O₂ Pyrazole 5 chloro 1 (2 4 di nitrophenyl) 3 methyl 1246¹
C₁₀H₇ClO 2 Naphthol chloro , 946² 2138³
C₁₀H₇ClO₂S 2 Naphthol 3 sulfonyl chloride 2138³
C₁₀H₇Cl₂N Quinaldine 3 4 dichloro 2430¹
C₁₀H₇Cl₂NO 2 Quinolinecarbinol 3 4 di chloro 2430¹
 4 Quinolol 3 chloro 2 (chloromethyl) 2430²
C₁₀H₇Cl₂N₂NaO 3 Pyrazolol 1 (2 4 dichloro phenyl) 5-methyl, Na deriv 3342³
C₁₀H₇F Naphthalene fluoro 806¹ 4544^{1,3}
C₁₀H₇FO₃S Naphthalenesulfonic acid fluoro and *Fe salt* 4544¹
C₁₀H₇I Naphthalene iodo- 806¹
C₁₀H₇KN₂O₃S Pyrazol[3 2 γ] 2 1 4 benzothiadiazine 5 hydroxy 2 methyl 7 nitro-, 5-oxide K deriv 1247¹
C₁₀H₇KN₂O₃S Pyrazol[3 2 γ] 2 1 4 benzoxadiazine, 5 hydroxy 2 methyl 7 nitro-, 5-oxide K deriv 1246¹
C₁₀H₇NO₃ 2 Thiazolealdehyde 4 phenyl 2722¹
C₁₀H₇NO₃ (See also *Naphthalene nitro* -)
 1 Benzofuranacetoneitrile α hydroxy 1246¹
 Naphthol, nitroso-, 2423¹ 2424¹
 Quinaldic acid, 5713²
C₁₀H₇NO₃ (See also *Kynurenic acid*)
 1 Benzofuranoxylamide, 1243³
 Cinchoninic acid, 6 hydroxy, and salts 954¹
 1 Naphthol 2 nitro, 503⁴
 5 Quinol carboxylic acid 8 hydroxy, and derivs, 2727¹
C₁₀H₇NO₄ Phthalimide, N hydroxy, acetate 3993¹
C₁₀H₇NO₅ 1 Naphthalenesulfonic acid, 4 nitro, 290²
C₁₀H₇NO₅S 2 Naphthol 3 sulfonic acid, 1 nitroso-, 2138¹
C₁₀H₇NO₅S 2 Naphthol - 4 sulfonic acid 6 nitro 417²
C₁₀H₇NO₅S₂ 2 Naphthol 3 6 disulfonic acid, nitroso- Na salt, 281¹, 2937¹
C₁₀H₇N₂O Imidazo[4,5 β]quinoline 2(3) one, 5400¹
C₁₀H₇N₂O₂ Hydantoin, 5-o-nitrobenzal, 5400¹
- C₁₀H₇N₂O₂** Isoindolineacetamide 1 3 diketo 4 (and 5) nitro 332²
C₁₀H₇N₂O₂ 2,1 3 Triazole[4 5 δ]pyridazine 4 7 dione, 5 6 dihydro 2 phenyl, 1826¹
C₁₀H₇ See *Naphthalene*
C₁₀H₇As₂N₂O₂ 2 Pyrrolol 5 5 arsenobis-, P 4012¹ P 4058¹
 2(1) Pyridone, 3 3 arsenobis 4268¹
C₁₀H₇BrClN₂ Pyridine 2 6 diamino 3 bromo-5-(6-chloro 3 pyridylazo), P 4892²
C₁₀H₇BrN Naphthylamine bromo 2352¹
 Quinolone 8-bromo 6-methyl 2427¹
C₁₀H₇BrNO 1 Naphthol 2 amino 4 bromo-945²
 Quinolone 4 bromo 6 methoxy 954¹
C₁₀H₇BrNO Isatin 5 bromo 4 7 dimethyl P 2736¹
C₁₀H₇BrN₂O₂ Indoxyllic acid 6 bromo- Me ester 1022¹
C₁₀H₇BrN₂O₂S Naphthalenesulfonic acid amino-bromo 1516⁷
C₁₀H₇BrNO₃S 1 3 Naphthalenedisulfonic acid 7 amino 2 bromo 1516⁷
C₁₀H₇BrN₂S Thiazole 2 (bromomethyl) 4 phenyl 2722¹
C₁₀H₇BrN₂O₂ Phenol 3 aminobromodinitro-di Ac deriv 2128¹ 2129¹
C₁₀H₇Br₂ Benzene o-bis(α bromovinyl), 4532²
C₁₀H₇Br₂NO 4 Pyrazolol 1 (2 4 dibromo phenyl) 5-methyl 3342³
C₁₀H₇Br₂N₂O₂ Benzoxazole 4 acetamido 5 6 dibromo-1 methyl 2129¹
C₁₀H₇Br₂N₂O₂ Quinone 2 6 diacetamido 3 5-dibromo 2129¹
C₁₀H₇Br₂O₂ Butyric acid β,γ dibromo-α keto-γ phenyl, 936¹ 4851¹
C₁₀H₇Br₂NO Quindole 3 3 5-tribromo-1 ethyl, 293¹
C₁₀H₇Br₂NO₂ Diacetamide 2 4 6 tribromo- P 9,3¹
C₁₀H₇ClHgN Quinolone chloromercurimethyl 5427^{1,4}
C₁₀H₇ClN Lepidine 6-chloro P 3668¹
 Naphthylamine chloro- 2352¹
C₁₀H₇ClNO 4 Quinolol 3 chloro 2 methyl, 2430¹
C₁₀H₇Cl₂NO Isatin, 5 chloro 4 7 dimethyl, P 2736¹
 2 Quinolonecarbinol 3 chloro 4 hydroxy 2430²
C₁₀H₇ClNO₂ Vanillin chloro 2 nitro acetate 94¹
C₁₀H₇ClN₂S Thiazole (chloromethyl)phenyl, 952¹ 2722¹
C₁₀H₇ClN₂O 2 Pyrrolol 5 amino 3 (6-chloro 3 pyridylazo), P 4892²
C₁₀H₇Cl₂N₂O 4 Pyrazolol 1 (2,4 dichlorophenyl) α-methyl, and HCl 3342³
 3 Pyrazolone 1 (2 4 dichlorophenyl) 5-methyl 3342³
C₁₀H₇Cl₂O₂ Anisic acid 3 (α β-dichlorovinyl), 5412¹
C₁₀H₇Cl₂O Hydroquinone, bis(chloroacetate) 1814¹
 Pyrocatechol bis(chloroacetate), 1814¹
 Resorcinol bis(chloroacetate) 1814¹
C₁₀H₇Cl₂O₂S Acetic acid α α (2,5-dichloro-m phenylenedithio) 15-, 1510²
C₁₀H₇Cl₃O Anisoyl chloride 3 (α,β,β trichloro ethyl), 5412¹
C₁₀H₇FN 1 Naphthylamine 4 fluoro-, and salts 4545¹

- C₁₀H₁₁NO₂S Naphthalenesulfonamide, fluoro-, 4544¹, 4,4,4
- C₁₀H₁₁NO Quinoline 4-iodo 6-methoxy 904¹
- C₁₀H₁₁N₂ Pyridine 1,6-diamino 3-iodo 5-iodo 3-pyridylazo) P 4892¹
- C₁₀H₁₁O Hydroquinone bis (iodoacetate) 1814¹
- Pyrocatechol bis (iodoacetate) 1814¹
- Resorcinol bis (iodoacetate) 1814¹
- C₁₀H₁₁KN Quinoline 1,2-dihydro 2-methylene-1-K deriv 488,4¹
- C₁₀H₁₁LN Quinaldine L-deriv 1829¹
- C₁₀H₁₁N₂ Bipyridine 960¹, 1622¹, 2¹, 25¹
- C₁₀H₁₁N₂O 5-Imidaz[3,4-a]pyridine 5-one 2,3-dihydro 82¹
- 1-Naphthylamine 4-nitroso- P 4135¹
- 1-Pyrrolbenzimidazolone 2,3-dihydro 701¹
- C₁₀H₁₁NO₂ Hydantoin 3-benzal 2-thio- 1508¹
- C₁₀H₁₁N₂O₂ Cinchonamide 6-hydroxy 954¹
- Furazan 3-benzoyl 4-methyl 333¹
- Hydantoin 5-benzal 1508¹
- 5-Isoxazolecarboxanilide 5168¹
- Lepidine 6-nitro- P 3668¹
- 1-Naphthylamine -nitro- 2¹, 10¹
- Uracil 6-phenyl 516¹, 1630¹
- C₁₀H₁₁N₂O₂ Hydantoin 1-benzoyl 2-thio 1508¹
- C₁₀H₁₁N₂O₂ Barbituric acid α - α -dipropargyl P 4360¹
- Carbostyryl 4-methyl-6-nitro 296¹
- 2-Isoundolineacetamide 1,3-diketo 3325¹
- Phthalimide 4-amino Ac deriv 1511¹
- C₁₀H₁₁N₂O₂ Thiocyanic acid styrene ester P 1258¹
- C₁₀H₁₁N₄ 3 Quinoxalinedinitrile 1,2,3,4-tetrahydro 90¹
- C₁₀H₁₁N₂O₂S 5-Pyrazol[3,2- γ] 2,1,4-benzothiazine α -hydroxy 2-methyl -nitro- α -oxide 124¹
- C₁₀H₁₁N₂O₂S 5-Pyrazol[3,2- γ] 2,1,4-benzothiazine 5-hydroxy 2-methyl -nitro- 5-oxide 1249¹
- C₁₀H₁₁O (See also Naphthol)
- Iodone 3-methyl 151¹
- C₁₀H₁₁O₂ Ketone methyl 1-thionaphthyl 516¹
- C₁₀H₁₁O₂ Coumarin methyl 4542¹
- 1,2-Indandione 3-methyl 5161¹
- Indenecarboxylic acid 5171¹
- Naphthalenediol 503¹, 512¹, 1241¹, 5159¹
- P 5596¹
- C₁₀H₁₁O₂ 1-Benzofuranacetic acid 1246¹
- Cinnamaldehyde 3,4-methylenedioxy 4247¹, 42¹, 7¹
- Coumarin 3-methoxy 5413¹
- 1,3-Indandione 4-hydroxy 7-methyl, 2718¹
- Pyruvic acid, benzal, 936¹ and λ salt 4551¹
- Umbelliferone methyl 2386¹, 2630¹
- C₁₀H₁₁O₂S 2-Naphthalenesulfonic acid, P 763¹
- Thionaphthenequinone 5-ethoxy, 5165¹
- C₁₀H₁₁O₂ Cinnamic acid α -carboxy 2143¹
- Cinnamic acid 3,4-methylenedioxy, 42¹, 7¹
- Coumarin, dihydroxy 4-methyl 4250¹, 46¹, 1¹
- Hernandine 6-hydroxy, 3950¹
- 1,3-Indandione, 4-hydroxy 6-methoxy 2140¹
- 4-Isobenzenesulfoncarboxylic acid, 1,2-dihydro-1-keto, Me ester, 332,4¹
- Phthalide, 4-hydroxy, acetate, 3325¹
- Scopoletin, 3980¹, 4249¹
- C₁₀H₁₁O₂S See Naphthalenesulfonic acid
- C₁₀H₁₁O₂S 1,5-Naphthalenedisulfonic acid, and di Na salt, 3340¹
- C₁₀H₁₁O₂ Hemipne anhydride, 934¹
- C₁₀H₁₁O₂S Acetic acid, α - α' -(diketocyclohexadienenedithio)bis-, 1510¹
- 1,5-Naphthalenesulfonic acid, 1816¹
- C₁₀H₁₁O₂S 2-Naphtholdisulfonic acid, 55¹, 474¹
- C₁₀H₁₁O₂S 2-Naphthol 3,6,8-trisulfonic acid, 2665¹
- C₁₀H₁₁AgN₂O₂S 2-Triazinemercaptan, 4-amino-6-p-amsyl, Ag deriv, 1531¹
- C₁₀H₁₁AgN₂S 2-Triazinemercaptan, 4-amino-6-benzyl, Ag deriv, 2730¹
- 2-Triazinemercaptan, 4-amino 6-tolyl, Ag deriv 1531¹
- C₁₀H₁₁BO₂ Boric acid, 1 (and 2) naphthyl, 927¹
- C₁₀H₁₁BrN₂O 4-Pyrazolol, 1 (β -bromophenyl) 5-methyl, 3342¹
- C₁₀H₁₁BrN₂O₂ Quinone, 3,5-diacetamido-2-bromo- 2129¹
- C₁₀H₁₁BrN₂O Oxindole, 3,3-dibromo-1-ethyl, 293¹
- C₁₀H₁₁BrN₂O₂ 2-Pyrrolicarboxylic acid, 4-cyano 3-(hydroxymethyl)-5-(tri-bromomethyl) Et ester, 698¹
- C₁₀H₁₁BrN₂O Benzyl alcohol α -(tribromomethyl), acetate, 505¹
- Hydrocyanamic acid β - α tribromo, Me ester 4235¹
- C₁₀H₁₁BrO Ether, butyl pentabromophenyl, 1815¹
- Ether, sec butyl pentabromophenyl, 1815¹
- Ether, isobutyl pentabromophenyl, 1815¹
- C₁₀H₁₁ClN₂ 1-(4-Pyridyl)pyridinium chloride, HCl, 3998¹
- C₁₀H₁₁ClN₂O 4-Pyrazolol, 1 (β -chlorophenyl) 5-methyl, and HCl, 3342¹
- C₁₀H₁₁ClN₂O₂ Benzothiazole, 5-chloro-1-N-methylacetamido- 104¹
- Benzothiazoline, 1 (acetylhumno) 5-chloro-2-methyl 104¹
- C₁₀H₁₁ClN₂ Pyridine 2,6-diamino 3-(6-chloro-3-pyridylazo), P 4892¹
- C₁₀H₁₁ClO 1-Indanone, 5-chloro 4-methyl, P 1841¹
- C₁₀H₁₁ClO₂ Fumaric acid 5-chloro, 94¹
- Vanillin 5-chloro-, acetate 94¹
- C₁₀H₁₁ClO₂S Acetic acid, α - α' -(4-chloro-m-phenylenedithio)bis-, 1510¹
- C₁₀H₁₁Cl₂O₂ Acetophenone, α -trichloro-4-hydroxy 2,5-dimethyl, 935¹
- C₁₀H₁₁Cl₃O₂ Anisic acid, 3 (α , β , γ trichloro-ethyl), 5412¹
- C₁₀H₁₁Cl₃NO₂ β -Acetophenimide, 2,3,5,6-tetrachloro-, 1816¹
- C₁₀H₁₁FN₂O₂ Benzothiazole 5-fluoro 1-N-methylacetamido-, 4651¹
- Benzothiazoline, 1 (acetylhumno)-5-fluoro-2-methyl, 4881¹
- C₁₀H₁₁IN₂O₂ Benzothiazole, 5-iodo-1-N-methylacetamido-, 4651¹
- C₁₀H₁₁KN₂O₂ Uracil, 6-phenyl, K deriv, 516¹
- C₁₀H₁₁N (See also Naphthylamine)
- Lepidine, P 2442¹, P 3668¹, P 3919¹
- Quinaldine 42¹, 7¹, 5713¹
- C₁₀H₁₁NO Acetonitrile, β -tolyl, 505¹
- Carbostyryl, methyl-, 2¹, 27¹
- Echinopane, 4637¹

- 2 Naphthol, 1 amino-, HCl, 2139¹
 C₁₀H₇NO₃ 4 Quinolmercaptan 6 methoxy, 954¹
 2 Thiazolecarbanol 4 phenyl 2722¹
 Thiazolo[*a*]quinoline 2(4)-one, 5,6-dihydro- 5169¹
 Thiocyanic acid *p*-methylphenacyl ester, 505¹
 C₁₀H₇NO₃ 3 Indolecarboxylic acid, 2 methyl, 2721¹
 Indoxyl, acetate, 2144¹
 —, 1 acetyl 2144¹
 Isatin dimethyl, P 1845¹ P 2157¹
 Pseudosatin 1 ethyl, 293¹
 2 4(1 3) Quinolindione 5(or 7) methyl P 266¹
 Succinamide *N*-phenyl 2418¹
 α -Tolualdehyde α -cyano *p*-methoxy, 4541¹
 C₁₀H₇NO₃ Thiocyanic acid *p*-methoxyphenacyl ester 505¹
 C₁₀H₇NO₃ Isatin 5-chloro-7-methoxy 4 methyl, P 2736¹
 1(2) Naphthalenone, 3,4 dihydro 7 nitro P 1539¹
 Phthalide acetamide 3325¹
 Phthalimide *N*-ethoxy (?) 3943¹
 C₁₀H₇NO₃ Naphthalenesulfonic acid amino 1516¹
 Naphthionic acid 1516¹ 2703¹
 2-Naphthol 3 sulfonamide 2139¹
 C₁₀H₇NO₃ Hemipumide 5342¹
 Pyrimic acid oxime anhydride, 5342¹
 Pyruvic acid (*o*-aminobenzoic) 2445¹
 C₁₀H₇NO₃ Naphtholsulfonic acid amino- 417¹
 1516¹ 1517¹ 2139¹, 3331¹
 4-Quinolinesulfonic acid 6-methoxy and salts 954¹
 C₁₀H₇NO₃ 2 Propanone, 1 (4 5 methylene-dioxy 2 nstropheny) 3324¹
 Propiophenone 4 5-methylenedioxy 2 nitro- 3324¹
 C₁₀H₇NO₃ Naphthalenedisulfonic acid, ammo 1516¹, 2703¹
 C₁₀H₇NO₃ Naphtholdisulfonic acid amino- 1516¹ and *K* salt 1517¹
 C₁₀H₇N₂NaO Acetamide *N*-benzyl α -cyano Na deriv, 3632¹
 Acetotoluidine, α -cyano- Na deriv 3632¹
 C₁₀H₇N₂ Pyrimidine 2 amino-4-phenyl 1254¹
 C₁₀H₇N₂O Furazan 3 (aminomethyl) (?) benzal deriv, 1248¹
 C₁₀H₇N₂O₂ Thiazolo[*a*]quinoline 2 4,5,6 tetrahydro 2 nitrosomino 5169¹
 C₁₀H₇N₂O₂ 1 Benzofuranaldehyde, semicarbazone, 1246¹
 Cucconic acid, 6-hydroxy hydrazide 954¹
 Furazan 3 (aminomethyl) (?), Bz deriv, 1248¹
 —, 3-amino-4 *p*-tolyl, 3338¹
 —, 3-benzamide-4-methyl 3623¹
 2,6 4 Oxidazole, 2 acetamide 5 phenyl 498¹
 4(3) Quinoxaline 3 acetamide, 4882¹
 C₁₀H₇N₂O₂ 1,3 4 6 Thiodiazan 5 ol, 2 amino- Bz deriv, 3002¹
 C₁₀H₇N₂O₂ Benzothiazole, 1 *N*-methylacetamide-5-nitro, 104¹
 Benzothiazoline 1 (acetylumino) 2 methyl 5 nitro, 104¹
 C₁₀H₇N₂S Phenyl mercaptan (4,5 dihydro 2 imidazolyl) thiocyanate, 1228¹
 C₁₀H₇N₂O₂ Pyrazobenzotriazine 4 5 dihydro 5 hydroxy 2 methyl 7 nitro, 5 oxide 1246¹
 C₁₀H₇N₂O 3 2 Triazinemercaptan 4 amino 6 methyl, parate 705¹
 C₁₀H₇O₂Rb 1 3 Butanedione 1 phenyl, Rb deriv 2381¹
 C₁₀H₇ Benzene, divinyl 3973¹ 4532¹
 1 3 Butadiene 1 phenyl 922¹ 3972¹ 4238¹
 C₁₀H₇AsCl₂NO₂ Succinamic acid *p*-dichloro aryl 2705¹
 C₁₀H₇AsNO₂ 6 Lepid nearsonic acid 2 by droxy, and salts 396¹
 C₁₀H₇As₂N₂O₂ 2 Pyridol 5 5 arsenobis(3 amino P 3361¹
 C₁₀H₇BrCl₂NO₂ Butyraldehyde β chloro α keto, *p*-bromophenylhydrazine 3311¹
 C₁₀H₇BrCl₂NO₂ Benzothiazole 3 bromo 5 chloro 1 propylamino- 4881¹
 C₁₀H₇BrNO₂ Oxindole 5 bromo 1 ethyl 293¹
 C₁₀H₇BrNO₂ Anisic acid 5-acetamide 2 bromo 1225¹
 C₁₀H₇BrN₂O₂ Benzothiazole 2 acetyl 1 amino 5-methyl dibromide HB 103¹
 C₁₀H₇Br₂N₂O₂ Phenol diacetamidodibromo- 2128¹, 2129¹
 C₁₀H₇Br₂N₂Zn 3925¹
 C₁₀H₇Br₂O₂ Isobutyrophenone dibromo hydroxy, 689¹
 β Isodurylic acid 3 5-dibromo 940¹
 C₁₀H₇Br₂ClNO₂ Benzothiazole 3 bromo 5 chloro 1 propylamino dibromide 4881¹
 C₁₀H₇Br₂NO₂ 3 Pyrolicarboxylic acid 2 acetyl 5 methyl Et ester tribromo deriv 3008¹
 C₁₀H₇Br₂ Benzene bis(α β dibromoethyl), 3973¹ 4532¹ 4533¹
 Toluene β propyl tetrabromo deriv 4540¹
 C₁₀H₇Cl₂ClN₂ 3587¹
 C₁₀H₇Cl₂O₂ 2 Propanol 1 chloro 3 iodo salicylate 3636¹
 Salicylic acid β chloro β iodosopropyl ester P 1235¹
 C₁₀H₇Cl₂NO₂ Acetoacetamide (*o* *m* and *p*) chloro 2126¹
 C₁₀H₇Cl₂NO₂ Acetamide 5 chloro 2 mercapto acetate 931¹
 C₁₀H₇Cl₂NO₂ Acetamide 2 chloro 4 hydroxy, acetate 1505¹
 C₁₀H₇Cl₂NO₂ Acetic acid [(2 carbamyl 5 chloro-*m* tolyl)mercapto] P 2106¹
 C₁₀H₇Cl₂NO₂ 1 Propanol 3 chloro β nitro benzene 2709¹
 C₁₀H₇Cl₂O₂ 3 Pyrazolone 1 (5 chloro 2 pyridyl) 4 5-dimethyl P 2814¹
 C₁₀H₇Cl₂NO₂ Butyraldehyde β chloro α keto-, *p*-chlorophenylhydrazine 3311¹
 C₁₀H₇Cl₂N₂O₂ Acetamide *N*-*N*-*m*-phenylenebis(α -chloro 293¹
 C₁₀H₇Cl₂N₂Zn 3925¹
 C₁₀H₇Cl₂O₂ 2 Propanol 1 3 dichloro- benzoate, 3636¹
 C₁₀H₇Cl₂O₂ Butyrophenone dichloro 2 4 dihydroxy 504¹
 2 Propanol 1 3 dichloro-, β hydroxy benzoate 3636¹ salicylate, 3636¹
 C₁₀H₇Cl₂NO₂ 2 5 Xylenol 4 (β trichloro α aminoethyl) and HCl, 935¹
 C₁₀H₇Cl₂NO₂ Anisamide 3 (α β trichloroethyl) 5412¹
 Pyrrole 3 acetyl 2,4 dimethyl 5 trichloroacetyl, 3008¹, 3009¹

- C₈H₄ClN₃ORu - H₂O 1402
 C₈H₄ClN₃Pt 1 (4 Pyridyl)pyridinium
 chl r platinate 3997
 C₈H₄ClN₃O + 2H₂O Dialuric acid 5-methyl
 C deriv 3390
 C₈H₄HgN₂O₂ Acetamide N benzyl-o cyano-o
 l iroxymercuri 3619³
 Ac chloride o cyano o (hydroxymercuri
 curi 3619⁴
 C₈H₄HgO₂ An aldehyde 3 (acetoxymercuri)
 hydroxy 5⁴
 Iso amine 2 acetoxymercuri 357
 C₈H₄Hg₂O Benzene o-las(acetoxymercuri)
 957 1832¹
 C₈H₄I₂N₂Zn 392²
 C₈H₄N₂ 5 Imidaz[2,3-a]isoindole 2,3
 dihydro 702¹
 Quinoxaline 2,3-dimethyl 3001
 C₈H₄N₂O Carbostyryl 6-amino 4-methyl
 and HCl 796¹
 3-Indoecarboxamide 2-methyl 21
 4-1-razlo methyl 1-phenyl and
 1 3342
 Quinoline 4-amino 6-methoxy and
 salt 903¹
 8 Quinoline " amino o methyl,
 904
 C₈H₄N₂O₂ Benzothiazoline 2-acetyl 1-
 amino 2-methyl 103¹
 Hydantoin 2-benzyl thio 150b
 Phenol p [4 (aminomethyl) 2-thia
 zolyl] 9 23
 C₈H₄N₂O₂ 2 Benzimidazolepropionic acid
 011¹
 Benzoxazole acetamido 1-methyl 1749¹
 Dipyrrylol[1,2-a] 1,2-dipyrzine 5,10
 diol o 10 dihydro 2997¹
 Furazan 3-p-anisyl-4-methyl 906¹ 3620²
 Hydrouacil 6-phenyl 516¹
 C₈H₄N₂O₂ 3 Hydantoin 5-p-hydroxybenzyl
 2-thio- 1005¹
 C₈H₄N₂O₂ 1,2,3,6 Dioxazine 4-p-anisyl
 5-methyl 906¹ 3625
 Furazan, 3-p-anisyl 4-methyl 5-
 oxide 906¹
 Furoxan p-anisylmethyl 3625¹
 Glyoxime benzoylmethyl 261¹
 C₈H₄N₂O₂ 3 2 Naphthalenesulfonic acid 5,8-
 di-amino- 3321¹
 C₈H₄N₂O₂ Acetoacetamide m-(and p)-nitro-
 2126¹
 Phthalamic acid N (carbamylmethyl)
 3325
 Quinone 2,6-di-acetamido- 2129¹
 C₈H₄N₂O₂ 3 Benzenesulfonic acid o (4-o-di-
 hydro 5-keto 3-methyl 1-pyr-
 azolyl) 002¹
 2-Naphthol-4-sulfonic acid 1,6-diamino
 4177
 C₈H₄N₂O₂ Alanine N-nitrobenzoyl 2115¹
 and Ag salt 2114¹
 β-Isodurylaldehyde 3,5-dinitro- 424¹
 C₈H₄N₂O₂ Quinone 2,5-di-acetamido 3,6-
 dihydroxy 2129¹
 C₈H₄N₂O₂ 1,2,4,5 Benzene-tetrol 3-amino-
 6-nitro-, di Ac deriv 2129¹
 C₈H₄N₂O₂ 4 Thiazolemethylamine 2-phenyl,
 and hydrochloride 9323
 Thiazolo[4,5-c]quinoline 2,4,5,6-tetrahydro-
 2-amino- HBr 5169¹
 C₈H₄N₂ Pyrazino[2,3-b]quinoxaline 1,2,3,4
 tetrahydro, 30011¹
- C₈H₄N₂O Butyronitrile, α,β-diketo, α-
 oxime, β-phenylhydratone, 3621¹
 C₈H₄N₂O₂ 2 3 Triazinemercaptan 4-amino-
 6-p-anisyl, 1531¹
 1,2,4-Triazol 3(2)-one, 5-methyl 2-
 phenylthiocarbonyl, 3601¹
 C₈H₄N₂O₂ 1,3,4,6 Thiodiazin 5-ol, 2-
 amino-, compd with phenyl isothio-
 cyanate, 3002¹
 C₈H₄N₂O₂ 3 Pyrazolone, 4,5-dimethyl 1-
 (2-nitro-2-pyridyl), P 2814¹
 C₈H₄N₂O₂ Crotonaldehyde, 2,4-dinitrophenyl
 hydrate, 3320¹
 C₈H₄N₂O₂ 3 Isoxanthine, 9-allyl-8 (carboxy
 methylmercapto), 3966¹
 C₈H₄N₂O₂ Acetophenone, 4,5-methylenedioxy
 2-nitro-, semicarbazone, 3324¹
 C₈H₄N₂O₂ 2 3 Triazinemercaptan, 4-amino-6-
 benzyl, 2730¹
 2 3 Triazinemercaptan, 4-amino-6-
 tolyl 1531¹
 C₈H₄N₂O₂ 2 Pyridol 5 (2,6-diamino 3-
 pyridylazo) P 4892¹
 C₈H₄O Δ² 2 Butenone, 4-phenyl, 939¹, 4867¹
 Crotonophenone(?) 2132¹
 Ether 2-butanyl phenyl 1815¹
 — 2-vinylmethyl, 2139¹
 Isocrotonophenone (?), 2132¹
 1(2) Naphthalenone 3,4-dihydro-,
 2433¹
 C₈H₄O₂ (See also *Isosafrole Safrole*)
 1,3-Butanedione 1-phenyl, 82¹
 Cinnamic acid, Me ester, 2143¹
 — methyl 2143¹
 m-Dioxin, 2-phenyl 3962¹
 Ethenol 2-phenyl, acetate, 4867¹
 5-Homochromanone 1240¹
 1,3-Indenediol, 1-methyl, 1517¹
 1(2) Naphthalenone, 3,4-dihydro-2-
 hydroxy 5159¹
 1,4-Naphthoquinone, tetrahydro-, P 3363¹
 C₈H₄O₂ Cinnamic acid, hydroxy, Me ester,
 2143¹
 Ethylene oxide, 3,4-methylenedioxybenzyl,
 4277¹
 —, α-methyl β (3,4-methylenedioxy
 phenyl), 4277¹
 —, piperonyl, 3324¹
 Ferulaldehyde, 4277¹
 Phenol, 2,4-diacyl, 3634¹
 2-Propanone 1 (3,4-methylenedioxy-
 phenyl) 3324¹ 4277¹
 3¹ 1-Propanol 3 (3,4-methylenedioxy
 phenyl), 2708¹
 Propiophenone, 3,4-methylenedioxy, 3324¹,
 4277¹
 Toluic acid, acetyl, 685¹, 2714¹
 C₈H₄O₂ 1,2-Butanedione, 1-(2,4-dihydroxy-
 phenyl), 1510¹
 2,3-Cresotic acid acetate 3893¹
 Ferulic acid 4277¹
 Lactic acid benzoate, 492¹
 Malonic acid benzyl, 3230¹
 Resorcinol, 4,6-diacyl, 1526¹, 4541¹
 C₈H₄O₂ Acetic acid α α' (phenylenedithio)
 base, 1510¹
 C₈H₄O₂ Opianic acid 3320¹, 5897¹
 Phthalic acid, 3-methoxy, mono-Me ester,
 3980¹
 C₈H₄O₂ Dimethyl ester, m 140-3¹, of acid
 from ergosterol, 114¹
 m-Hemipic acid, 934¹
 Pterterephthalic acid, di Me ester, 911¹

- C₆H₄S₂ 2 2' Bithiophene 5 5' dimethyl, 793¹
- C₁₀H₇AsN₃O₄ 5 Benzimidazolecarboxylic acid 1 - allyl 2,3 dihydro - 2 keto, P 1840²
- C₆H₅Br Benzene 1 (α bromoethyl) - 3 vinyl, 4533¹
- C₆H₅BrN₂O₂ Acetamide N, N' (4 bromo o phenylene)bis-, 426³
- C₆H₅BrN₂O₂ Phenol diacetamidobromo- 2128⁴, 2129⁴
- C₆H₅BrN₂O₂ Hydroquinone 3,5 diacetamido- 2 bromo- 2129⁴
- C₆H₅BrN₂S Benzothiazole 3 - bromo - 1 ethylamino 5-methyl 4881¹
- C₆H₅BrO Ether, 2 bromo-1 naphthyl methyl 2139¹
- Indan 1 bromo 2 methoxy 1517¹
- C₆H₅BrO₂ β Isodurylic acid, 3 bromo- 940¹
- 1 Propanol, 3 bromo-, benzoate 28⁷
- C₆H₅BrO₂ Acetic acid (3 4 dimethoxy phenoxy), bromo deriv 5898²
- C₆H₅BrNO Oxindole 1 ethyl dibromide 293¹
- C₆H₅BrNO₂ β Acetophenetide, dibromo- 286¹, 1810¹, 1817¹
- C₆H₅BrNO₂ 3 Pyrroledicarboxylic acid, acetyl methyl, Et ester dibromo deriv 3008¹, 4
- C₆H₅BrClN₂S Benzothiazole, 3 bromo 5 chloro 1 propylamino-, hydrotri bromide 4881¹
- C₆H₅Cl Benzene (γ chloro Δ¹ butenyl) 923¹
- C₆H₅ClN₂O Butyraldehyde β-chloro-α-keto-, phenylhydrazine 3311¹
- Crotonamide β amino-α (and β) chloro- 2126¹
- C₆H₅ClN₂O₂ β Acetophenetide 3 chloro 2 nitro, 2707¹
- C₆H₅ClN₂S Benzothiazole 5 chloro 1 propylamino- 4881¹
- C₆H₅ClO₂ 1 Propanol 3 chloro-, benzoate 287¹
- α-Toluidic acid β-chloro Et ester, 2987¹
- α-Toluidic chloride, α (methoxymethyl) 1814¹
- C₆H₅ClO₂ Asaronyl chloride 5154¹
- C₆H₅ClO₂ Acetic acid (3,4 dimethoxy phenoxy), chloro deriv., 5898²
- Glycerol 1 (3 chloro 4 hydroxybenzoate), 3636¹
- C₆H₅Cl₃ Toluene m (β γ γ trichloropropyl) 3979¹
- C₆H₅ClO₂ Benzyl alcohol 3 ethoxy-4 hydroxy α (trichloromethyl) P 5678²
- C₆H₅Cl₂N₂P, 5105⁷
- C₆H₅Cl₂N₂Sb, 5105⁷
- C₆H₅FN₂ Cyanamide, ethyl (β fluorobenzyl), 924¹
- C₆H₅IO₂ Glycerol, 1 (5-iodosalicylate), 3636¹
- C₆H₅N Iodole dimethyl, 2731¹
- Isodurylonitrile 936¹
- Δ¹-Pyrrolidine, 2 phenyl, 2997¹
- α-Toluidine, 2 4-dimethyl, 5154¹
- C₆H₅NO Acetanilide o-vinyl, 4866²
- Δ¹-2-Butenone 4 phenyl, oxime, 5141¹
- Tryptophol, 514¹
- 2,6-Xylostinilide 4 methoxy, 936¹
- C₆H₅NO₂ 1(2) Benzothiazolone, 2 ethyl 5 methyl, 5159¹
- C₆H₅NO₂ 5-Homochromanone, oxime, 1245¹
- C₆H₅NO₂S Lactamide, thio-, benzoate, 2708²
- Mandelamide, thio- acetate 2708²
- C₆H₅NO₂S₂ Carbamate acid homopiperonyl dithio- NH, salt 4241¹
- C₆H₅NO₂ Alanine, N benzoyl, 2118¹
- Asarononitrile, 5154¹
- 2 Butanone, 1 (2,4 d hydroxyphenyl) 1 imino-(?) HCl 1510¹
- β Isodurylaldehyde 3 nitro, 4247¹
- 2 Pyrroledicarboxylic anhydride 3 5 dimethyl 3647¹
- o-Toluidic acid 6 acetyl, oxime, 2714¹
- C₆H₅NO₂ 2 5 Pyrroledicarboxylic acid 4 formyl-4 methyl di Me ester 962¹
- Et ester 962¹
- 2 4 Pyrroledicarboxylic acid 5 formyl 3 propyl 3910¹
- C₆H₅NO₂ Acid m 16-7° from γ β diketone basic acid and HNO₃ 3617¹
- Benzoic acid 2 5 dimethoxy β nitro Me ester 1510¹ 3339¹
- C₆H₅NO₂ Acetic acid (3 4 dimethoxy phenoxy) nitro deriv 5898²
- C₆H₅N₂S Thioacetic acid methyl(methyl mercapto)benzyl ester P 3 3¹
- C₆H₅N₂ 1 3 4 Triazole 1 2 dimethyl 5 phenyl P 4557¹
- C₆H₅N₂O Quinolone 4 hydrazino-6 methoxy 904¹
- C₆H₅N₂O₂ Benzothiazoline 2 ethyl 1 (m trosomino) 5-methyl 5160¹
- 1 3 4 6 Thiodiazin 5 ol 2 antino-Me deriv 3002¹
- 2 toluene 3002¹
- C₆H₅N₂O₂ Hydrocinnyl azide, β methoxy, 5405¹
- C₆H₅N₂O₂ Crotonamide β amino m (and β) nitro- 2126¹
- Pyrroledicarboxamide, oxime Bz deriv., 3622¹
- C₆H₅N₂O₂ Anisaldehyde 2 hydroxy, semi oxamazone, 1507¹
- Benzaldehyde 4 hydroxy 2 methoxy, semioxamazone 1507¹
- 4 Chromanone 7 8 dihydroxy semi carbazone 1534¹
- Glycine [(3 pyridylcarbonyl)glycyl] 3000¹
- Propionamide α (m nitrobenzamido), 2117¹ 2118¹
- C₆H₅N₂O₂ Phenol 2 4-diacetamido 6 nitro-, 2129¹
- C₆H₅N₂S 2(3) Thiazolone 4 β - tolyl, hydrazone and its HCl, 1532¹
- s Triazole 3 (ethylmercapto) 5 phenyl, 2119¹
- C₆H₅N₂s Triazine 2,4 diamino 6 benzyl, and salts 908¹
- s Triazine 2,4 diamino 6 m (and β) tolyl and salts 907¹ 908¹
- C₆H₅N₂O Purazan 3 acetyl 4 - amino, phenylhydrazine 3622¹
- C₆H₅N₂ Pyridine 2 6 diamino 3 (6 amino-3 pyridylazo), P 4892¹
- C₆H₅N₂O₂ 1 2 5 Triazole 3,4 dicarboxylic acid 1 phenyl, dihydrazide, 1826¹
- C₆H₅O₂ Δ¹ 1 Butadienephosphonic acid 4 phenyl 4239¹
- C₆H₅ (See also Tetralin)
- Benzene, Δ¹-butenyl 3972¹
- Dicyclopentadiene, 1806¹, 5097¹
- Methano[4 7]undecene, 3a,4,7,7a - tetrahydro-, 1806¹, 1807¹
- Naphthalene, tetrahydro-, 1717¹

- styrene α ethyl 1817²
 C₁₀H₁₂AlN₃O 366²
 C₁₀H₁₂AlNO₂ Asaric acid \ glycolyl acetate P 378²
 Succinamic acid β arsono- 2704²
 C₁₀H₁₂BrNO 4 Acetylhydride 6 bromo- 691²
 1 obutyramide β bromo 1811²
 C₁₀H₁₂BrNO₂ α Acetamide 4 bromo 5-methyl 1223²
 Cumic acid 2 amino- β -bromo- 1502²
 C₁₀H₁₂BrNO₂ Carbanilic acid 3 bromo-2 hydroxy-3-methyl Et ester 5408²
 C₁₀H₁₂Br₂ Benzene α bis(a bromoethyl) 4337²
 Benzene (bromo α (bromomethyl) propyl) 181² 1837²
 C₁₀H₁₂Br₂ClN₂S Benzothiazole α chloro 1 propylamino-hydrotetrahydro- 4881²
 C₁₀H₁₂Br₂N₂S Benzothiazole 3 bromo 1 ethylamino 5 methyl hydrotri bromide 4881²
 C₁₀H₁₂ClNO₂ Acetamide chloro \ phen ethyl 1030²
 C₁₀H₁₂ClNO₂ Alanine \ (6 chloro α tolyl) 3633²
 2 Pyrovaldehyde 5 chloroacetyl 3 ethyl-4-methyl 3009²
 C₁₀H₁₂ClNO₂S 1 Ethyl 2 methylbenzothiazolum perchlorate 3169²
 C₁₀H₁₂Cl₂NO₂ ketone 4 ethyl 3 5 dimethyl 2 pyrryl trichloromethyl 3008²
 C₁₀H₁₂Cl₂NO₂ β Phenetidine α (β trichloro α hydroxyethyl) P 5177²
 C₁₀H₁₂HgO₂S α Toluic acid β (ethylmercur mercapto) 1521² 4907²
 C₁₀H₁₂N₂ Benzimidazole 2 isopropyl 1800²
 Benzimidazole 2 propyl, 1800²
 Cyanamide benzylethyl 923²
 C₁₀H₁₂N₂O Benzyl alcohol α (4 5 dihydro 2 imidazolyl) 702²
 1 Naphthylamine 5 6 7 8 tetrahydro-4-nitroso P 4133²
 Nicotinonitrile 4 6 diethyl 1 2 dihydro-2 keto 1533²
 Δ^2 Oxazole 2 aminomethylphenyl 3617²
 C₁₀H₁₂N₂O₂ Benzothiazole 5 ethoxy 1 methylamino- 1041²
 Benzothiazoline 5 ethoxy 1 imino 2 methyl 1041²
 C₁₀H₁₂N₂O₂ Pyrazine 2 5 diacetyl 3 6-dimethyl 3010²
 C₁₀H₁₂N₂O₂ (See also Dial)
 Acetamide \ (β antrophenethyl) 4832²
 Alanine \ (aminobenzoyle) and HCl 2117²
 Barbituric acid 5 isopropyl 5 propargyl P 4360²
 -, 5-propargyl 5 propyl P 4360²
 Carbanilic acid β -acetamido- Me ester 5404²
 Glycine (pyridylcarbonyl) Et ester 2999² 3000²
 Propophenone, α methylamino α nitro P 3671²
 2 - Pyrovalcarboxylic acid 4 cyano 5-(hydroxymethyl) 3 methyl Et ester 693²
 Succinamic acid α -amino- 701²
 C₁₀H₁₂N₂O₂ β Acetophenetide nitro- 2706² 2707²
 Carbanilic acid, β -nitro- isopropyl ester 2658² Et ester 2658²
 Hydroquinone, 2 6-diacetamido-, 2129²
 -, phenylcarbamyl deriv. 1485²
- C₁₀H₁₂N₂O₂S Glycine, N - (α -nitrophenylmercapto), Et ester, 491²
 C₁₀H₁₂N₂O₂S 2,5 - Pyrovalcarboxylic acid, 3-formyl-4-methyl, di Me ester, oxime 962²
 C₁₀H₁₂N₂O₂S Asparagine, N^o (phenylsulfoyl), 2614² and Na salt 279²
 C₁₀H₁₂N₂O₂S Alanine V (α -nitro α -tolyl-sulfonyl), 2117²
 C₁₀H₁₂N₂O₂S 2 β Cymenesulfonic acid, di nitro- 500²
 C₁₀H₁₂N₂S Benzothiazole, 1 ethylamino 5-methyl 4881²
 Benzothiazoline, 2 ethyl 1 imino 5-methyl, and HBr, 5169²
 1 Indolincarboxamide, 2 - methylthio, 5169²
 1 Quinolincarboxamide, 1,2,3,4 tetrahydro- 5169²
 C₁₀H₁₂N₂O₂S Uric acid 9 allyldimethyl-8-thio- 3966²
 C₁₀H₁₂N₂O₂S Caffeine 8 (carboxymethylmercapto), and Na salt, 3966²
 Isoxanthone 8 (carboxymethylmercapto) 9 propyl, 3966²
 C₁₀H₁₂N₂O₂S α Sparobhydantoin 1 - acetyl 1 3,3 trimethyl, 3965²
 C₁₀H₁₂N₂O₂ Alacreatine, picrate, 279²
 Creatine picrate 279²
 C₁₀H₁₂O (See also Anilole)
 Acetophenone, 3 4-dimethyl, 4867²
 -, β ethyl 4810²
 Benzyl alcohol, α allyl, 3978²
 2 Butanone, 4 phenyl, 1799², 4500²
 Δ^2 2 Butenol, 4 phenyl, 922², 923²
 Butyropheneone, 394²
 m Cresol 6 isopropenyl, P 5177², 5392²
 Dicyclopentadiene, oxide, 1807²
 Estragole 4277²
 Ether α ethylidenebenzylmethyl 2687²
 -, ethyl α methylenebenzyl, 2687²
 -, isopropenyl α tolyl 5392²
 -, methyl γ -phenylallyl, 2132²
 β Isodurylaldehyde, 4248²
 1 Naphthol 1 2 3,4 tetrahydro-, P 2433²
 Propophenone β methyl, 4540²
 C₁₀H₁₂O₂ (See also Eugenol Isocugenol)
 Acetophenone, methoxymethyl, 4867²
 Benzene, 1,2 methylenedioxy 4 - propyl-, 4247², 4277²
 Benzoc acid isopropyl ester, 3311², 3620²
 Butyric acid, γ phenyl, 4903²
 Butyropheneone, hydroxy 1228²
 α γ 4,4 Decatetraenoic acid, and salts, 683²
 Guaiacol, 5-allyl 4277²
 -, 5-propenyl, 4277²
 Hydrocinnamic acid β -methyl, 489²
 Isobutyropheneone hydroxy, 689²
 Isochavibetol P 2154², 5156²
 Naphthalenediol, 1,2,3,4 tetrahydro-, 1761², 1795²
 2 Propenone, 1 β -amyl, 691²
 Quinone 2,6-diethyl, 5410²
 Thymoquinone, 4538²
 α Toluic acid, Et ester 2657²
 C₁₀H₁₂O₂ Acetophenone 2,4-dimethoxy, 515²
 Benzaldehyde 3-ethoxy-4-methoxy, 3326²
 Butyropheneone, 2,4-dihydroxy, 504²
 Camferyl alcohol, 1991², 4277²
 Hydratropic acid, β methoxy, 1814², 2986²
 Hydrocinnamic acid, α -methoxy, 2133²
 Isobutyropheneone, 2,4-dihydroxy-, 4865²

- Mandelic acid Et ester, 1848¹, P 5558¹
 Nipazol, 1639²
 1 Propanol 3 (3,4 methylenedioxy phenyl) 4247¹
p Tolualdehyde, 3,5-dimethoxy 285¹
 C₁₆H₁₄O₄ (See also Camphoridin)
 Acetophenone, 4 hydroxydimethoxy, 3324¹ 4250²
 Benzaldehyde trimethoxy 2134¹ 4869²
 Benzoic acid, 3,5-dimethoxy, Me ester 1816¹
 Glycerol, benzoate, "6", 3636¹
 Salicylaldehyde ethoxymethoxy, 707¹
 "parassol 1652¹
 C₁₆H₁₄O₄ Acetic acid, (3,4-dimethoxyphenoxy) 5898¹
 Asaronic acid, 2957¹, 4869¹, 5154¹
 Benzoic acid trimethoxy 103¹ 4868²
 Glycerol 1 *p* hydroxybenzoate 3636¹
 — 1 salicylate 3636¹
 Mandelic acid, dimethoxy 1510¹ 3339¹ 5898¹, 4
 C₁₆H₁₄O₅ Lactic acid, toluenesulfonate 492¹
 2(or 5) γ Terpinenesulfonic acid, 3 6 di keto, *K* salt 4088¹
m Toluenesulfonic acid 4 hydroxy Me ester acetate 3322¹
 C₁₆H₁₄O₅V 1454¹
 C₁₆H₁₄As₂N₂O₅ 5 Benzimidazolecarsonic acid 2 3 dihydro 2 keto 1 propyl P 1840¹
 C₁₆H₁₄As₂N₂O₅ Arsanilic acid, *N* (β carbamyl propionyl) and salts 2705¹, 2
 Arsanilic acid *N* (methylcarbamylacetyl) and Na salt, 5407¹
 C₁₆H₁₄AuBr₂S Thiophene tetrahydro- compd with PhAuBr₂ 285¹
 C₁₆H₁₄Br₂N₂O₂ (See also Vortol)
 Barbituric acid 5 β bromoalkyl 5 isopropyl Ca salt P 4863
 C₁₆H₁₄Br₂N₂O₂ Uracil 5 bromo 3 glucosido- 84¹
 C₁₆H₁₄BrO Ether α (α bromoethyl)benzyl methyl 2657¹
 Ether, α (bromomethyl)benzylethyl 2657¹
 Isodural, bromo- 4,33¹
 C₁₆H₁₄BrS Thiophane tetrahydro- pheno bromide 283¹
 C₁₆H₁₄Br₂NO β Phenetidine 2 6 dibromo *N*, *N*-dimethyl 1817¹
 β Phenetidine 2 6 dibromo *N* ethyl 1817¹
 C₁₆H₁₄Br₂N₂S Benzothiazole 1 ethylamino 5 methyl hydrotetrabromide 4881¹
 C₁₆H₁₄Cl Isodurene, α -chloro- 5154¹
 C₁₆H₁₄ClN₂ Pyridine 2 chloro 3 (1 methyl 2 pyrrolyl), 2149¹
 C₁₆H₁₄ClN₂S Urea α (β chlorophenyl) β propylthio 4881¹
 C₁₆H₁₄ClN₂O₂ Theobromine 1 (β chloro propyl), 1031¹
 C₁₆H₁₄ClO Carvacrol, 5-chloro- P 3016¹
 C₁₆H₁₄Cl₂NO Ketone chloromethyl 4 ethyl 3 5 dimethyl 2 pyrrol, chloro deriv 3009¹
 C₁₆H₁₄IN₂O₂ Urea [α (α isodoethyl)benzyl] (?) 3617¹
 Urea (β iodo α methylphenethyl) (?) 3617¹
 C₁₆H₁₄N Aniline, *N*-isopropenyl *N* methyl, 282¹
 Naphthylamine, tetrahydro 500¹ 1571¹, 3681¹ 4053¹ 4613¹ 4933¹
 C₁₆H₁₄NO Butyrophenoate, oxime, 3329¹ 5141¹
 α γ , ϵ Decatetraenamide, 684¹
 Hydrocinnamamide, α methyl, 4248¹
 Indanol methylamino, 2139¹ and HCl, 2139¹
 Isobutyrophenoate oxime, 5141¹
 α -Toluidinic acid, Et ester, HCl, 2135¹
 C₁₆H₁₄NO₂ Carbamic acid (β methoxyphen ethyl)dithio- NH₂ salt, 4241¹
 C₁₆H₁₄NO₂ (See also Phenacidin)
 Acetamide *o* (β hydroxyethyl) 4869¹
 2,6 Acetoxyide, hydroxy, P 215¹
 Butyranilide, α -hydroxy, 1818¹
 Cummic acid 3-amino-, 1502¹
 Glycine, phenethyl ester 1814¹
 Hydrocinnamamide methoxy, 2133¹, 2
 Hydrocinnamic acid, β -methylamino-, 516¹
 Isobutyrophenoate α -hydroxy- oxime 689¹
 4 Isoquinobutyl 1 2 3 4 tetrahydro 5-methoxy and salts 515¹, 516¹
 Picolinic acid 6-butyl and deriv 3005¹, 2
 Pyrrolealdehyde 3 5 dimethyl 4 propionyl 3010¹
 C₁₆H₁₄NO₂ Cysteine benzyl, 79¹
 C₁₆H₁₄NO₂ Homopiperonylamine, 5-methoxy 2981¹
 Ketone 5 hydroxy 2 4 dimethyl 3 pyrrol methyl acetate 4009¹
 Phenol 2 6-diethyl 4 nitro- 5409¹
 1 Pyrrolebutyric acid, γ keto Et ester 1521¹
 Pyrrolecarboxylic acid acetylmethyl Et ester 3008¹, 4
 — dimethylpropionyl 3010¹
 2 Pyrroleglyoxylic acid 3,5 dimethyl Et ester 3008¹
 β Tolualdehyde 3,5 dimethoxy oxime, 285¹
 C₁₆H₁₄NO₂ Acetic acid (6 amino *m* phenethyl- mercapto), P 1099¹
 C₁₆H₁₄NO₂ Asaronamide 5154¹
 Benzamide trimethoxy, 100¹
 Carbamic acid 3,5-dimethoxy Me ester, 1816¹
 2,4 Pyrroledicarboxylic acid 5 methyl 3 propyl, 3010¹
 C₁₆H₁₄NO₂S Alanine, *N* β tolylsulfonyl 2113¹
 C₁₆H₁₄NO₂S 2 *p*-Cymenesulfonic acid 6-nitro-, 600¹
 C₁₆H₁₄N₂O Acetone 2 phenylsemicarbazone 2701¹
 Anabazine nitroso- 3347¹
 2 Propionat 1 phenyl, semicarbazone 1818¹
 1 Pyrroledicarboxamide 2 (3 pyridyl) and chloroplatinate 300¹
 C₁₆H₁₄N₂O₂ 1 2 4 Benzotriamine Δ ¹, N¹, diacetyl P 4555¹
 Lactaldehyde, β phenyl, semicarbazone, 1820¹
 Malonamide α amino α benzyl 1493¹
 C₁₆H₁₄N₂O₂ Buret, 1 *p*-phenetyl, 936¹
 C₁₆H₁₄N₂O₂S Benzenesulfonic acid *m* nitro- *sec* butyldehydroazide 2702¹
 C₁₆H₁₄N₂O₂S Sulfamic acid, *N* (*N* glycol glycol), 4288¹
 C₁₆H₁₄N₂O₂P, Isosonic acid, 308¹, 3083¹
 C₁₆H₁₄N₂O₂, Adenosine, 3083¹, 4626¹
 C₁₆H₁₄N₂O₂ See Guanosine
 C₁₆H₁₄ (See also Cymene)
 Benzene, butyl, 1717¹, 4751¹, 5323¹, 5890¹
 —, *sec* butyl, 1717¹
 —, *tert* butyl, 1717¹

Jethyll 11
Lutec 11
1 *ce* 10 8H
1 *Nd*
1 *c* pup 1 4+40
C H As N O S Comp m 171 3° from o-
toluenene sulfonamide and mercap-
tate 16 73
C H Br N H stud ne V bromopropionyl
ne h l e r aldo
C H Br N O S L stine bis bromoacetyl)
644
C H Et O P amphor dibromo 51 61
C H Br S Benzene p (is ethylmercapto)
tetralomle ad93
C H Cl NO Aniline 2 batox 4 chloro P
1844 P 3666
C H FN Aniline V diethyl p fluoro 3643
C H Fe O S
C H I N O I r i u c i 1 nitro o y pyr
methoxide 300
C H N S See also V olene
Ar d n nd HC 354
I per line p rds 960 If 2°
l ox ne l 3 4 tetrahydro 2 3
dimethyl
C H N O See Coramine
C H N O S Tre a methyl β phenetyl
th 164
C H N O S HA
Hydrocyanic acid β methoxy hydrazide
410
o Toluamide V (β aminoethyl) α
Urea β methoxyphenethyl 540o
Valeric acid α γ cyanos β-methyl Et
ester 1803
C H N O S Thiomorpholine 4 amino- 1
oxide 4bb
C H N O S Acetamid de 2 hydroxy 5 (β-
hydroxyethylamino) P 523^a
Barbituric acid allyl 5 isopropyl 219o
4183^b 43 5^a 461^b
Homoveratric acid hydrazide 29^a
Pyrocatecholallic acid acetylmethyl Lt
ester oxide 3008
— carlamethyl ester 608^b
C H N O S Benzoaryl amine 5-
methyl metho ufate 103
C H N O S racil 3 glucosido 84^a
C H N S Urea α-ethylthio-β tolyl 4881^a
5163^b
C H N O Acetone 4 aminovemicarbazone
3634^a
C H N O S I rrole 1 (γ ketovaleryl) semia-
carbazone 1u21^a
C H N O Carharic acid β (aminocarhamyl)
1 t ester 4134^a
Theobromone 1 β hydroxy propyl 1071ⁱ
Tiazene 3 ethoxy 3 ethyl 1 (p
terophenyl) 540A^a
— 2 isopropyl 3 methoxy 1 (p meto-
phenyl) 540A^a
C H N O S leucoumic acid 9 allyldimethyl &
th v 3u64^a
C H N O Diethylamine picrate 20 26-o^d
Isotylamine picrate 26-u^d
Tyroglyme v methyl picrate 4233
Tetramethyl ammonium picrate 26 G^a
C H N O S Ethylamine, sulphinate 701
C H N O F (See also Adenine acid)
Adren uraphylic acid 2103^a, 3070^r
C H O (See also Cerebral Carose Thyrid

α -Cresol, 4-propyl, 929¹
 Cyclopentanone, 2-cyclopentylidene-, 2420¹
 6-m Cymenol, P 303²
 Ether ethyl *o*-methylbenzyl, 5134¹
 — isopropyl tolyl, 2953²
 Isodurel 433³
 Methanol 4 7inden 5(4) - one, 2,3,3a, 6 7a hexahydro-, 1807¹
 Phenethyl alcohol β -ethyl, 1817¹
 Phenol butyl, 1229²
 —, *p*-isobutyl P 303²
 Salfrancamphor 110¹
p-Thymol, 2953²
 Verbenone 939¹
 $\text{C}_{10}\text{H}_8\text{O}$ Benzene diethoxy, β , 5847²
 Benzyl alcohol β (ethoxymethyl), 4540¹
 Butanediol, phenyl-, 1832², 3631¹
 Crocton 90¹
 Ethanol 2 2 β phenylenebis-, 3973¹
 Guaiacol 4 propyl-, 2982², 3636¹
 2 Hexanone, 4(2 furyl), 5124¹
 Hydroquinone 2 6-diethyl, 5410¹
 1 α -Octadecene-2 7-diol 2 7-dimethyl 74¹
 Phenol *m* butoxy, α 405¹
 Resorcniol 4 isobutyl 4863¹
 $\text{C}_{10}\text{H}_8\text{O}_3$ Benzene, β bis(ethylsulfinyl), α 392²
 $\text{C}_{10}\text{H}_8\text{O}$ α Amaldehyde, β Me acetal, α 98¹
 Camphoric anhydride, 2711²
 1 1 Cyclopentanediacetate anhydride 3 methyl 3319, 4234¹
 α Heptenoic acid, β (α hydroxyisopropyl) α -keto γ -lactone, 1512²
 — β isopropyl- α -keto 1512²
 7 α -Camphanecarboxylic acid 2 - keto 1 7-dimethyl 1823², 3640¹
 Phenethyl alcohol 3 4-dimethoxy, 3612²
 1 2 Propanediol 3 benzoyloxy, 916², 2692¹
 — 3-toloxyl 916²
 $\text{C}_{10}\text{H}_8\text{O}_3\text{S}$ Cymenylsulfonic acid *Mg* salt P 525¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4$ Bicyclo[3 3 0]octane 2,4 dicarboxylic acid, 1807¹
 Δ^3 1 2 Cyclohexenedicarboxylic acid, 2,4-dimethyl 3637¹
 Cyclopentanecarboxylic acid, 3,5-diketo-1,2 2 trimethyl (?), 2990¹
 Isoketocamphoric acid lactone 3983¹
 Mucosic acid, β Γ ester, 5399¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4$ Acetonequinide 3349¹
 $\text{C}_{10}\text{H}_{16}\text{O}_3\text{S}$ Δ^3 Terpadine 3 6 - dione - 2 (or 5) sulfonic acid, *K* salt, 5133¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4$ Pseudolical diacetyl, 2977²
 (α 1,4) (β 1 5) - Rhamnosan 2,3 diacetate, 1800¹
 Sebacinic acid, γ Γ -diketo- 3647¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4$ Erythrose tracetate, 1220¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4$ 2,3 4 Hexabetetetracarboxylic acid, 1803¹
 $\text{C}_{10}\text{H}_{16}\text{O}_4\text{S}_2$ Mucic acid, diethyl ester, disulfate, 3964¹
 $\text{C}_{10}\text{H}_{16}\text{S}_2$ Benzene β -bis(ethylmercapto), 3392²
 $\text{C}_{10}\text{H}_{16}\text{AlO}_3$ 5661¹
 $\text{C}_{10}\text{H}_{16}\text{As}_2\text{N}_2\text{O}_3$ α -Arsanilic acid, γ butyl γ nitroso- 4863¹
 3 Benzimidazolecarsonic acid 2 3 dihydro 2 hydroxy 1 2,3 - trimethyl, 4263¹
 $\text{C}_{10}\text{H}_{16}\text{As}_2\text{O}_3$ Benzenearsonic acid, α -butyryl, 4863¹
 $\text{C}_{10}\text{H}_{16}\text{Br}_2\text{N}$ β Fluorobenzyltrimethylammonium bromide 925¹
 $\text{C}_{10}\text{H}_{16}\text{Br}_2\text{N}_2$ Pyridine 3 - (β - bromo 3 methyl aminebutyl), 2997¹

- C₁₀H₁₇BrO** Epicamphor, bromo-, 5150¹
C₁₀H₁₇BrO₃ α -Camphorsulfonic acid, α bromo-, 5334¹
C₁₀H₁₇ClN₂ Pyridine, 3 (chloro 4 methyl aminoethyl), 2997
C₁₀H₁₇ClO₂ Compd, b.p. 115-5°, from mono Me carboxylate and SOCl₂ 2983²
C₁₀H₁₇ClO₃ α Camphorsulfonyl chloride, 5322¹
C₁₀H₁₇ClO₄ Methanetricarboxylic acid chloro tri Et ester, 5625²
C₁₀H₁₇HgI₂S Diethylphenylsulfonium mercury triiodide 690⁴
C₁₀H₁₇IN₂ Pyridine, 5 iodo 2 isomyl amino- P 224.²
C₁₀H₁₇N (See also *Amidine*, *diethyl*)
 Amine, *N* butyl, *HBr*, 4243¹
 — *N* isobutyl, *HBr*, 4241¹
 Benzylamine *N* - ethyl ρ methyl and *HCl*, 929⁴
 Campholenitrile 4201¹
 Δ^3 Cyclohexenitrile, 2 4 6 trimethyl P 2430¹ P 4891¹
 Isoduridine, 4533³
 Mesidine *N* methyl 4533³
 Propylamine *N* methyl γ phenyl, and *HCl*, 2709²
C₁₀H₁₇NO (See also *Ephedrine* *Ephedrine* *Hordeine*)
 Benzyl alcohol, α (α aminoethyl) ρ methyl, 146²
 — 2-dimethylamino 5 methyl 1813⁴
 Cyclopentanone 2 cyclopentylidene-oxime 2420¹
 2 Indanitrile, hexahydro 2 hydroxy 3333⁴
 Ketone, 4 ethyl 3 5 dimethyl 2 pyrrol methyl 3008²
 —, ethyl 2 ethyl 4 methyl 2 pyrrol, 3356²
 Phenethyl alcohol α dimethylamino 1810⁴
 Phenethylamine ρ methoxy *N* methyl P 2153²
 Phenol ρ sec butylamino *HCl*, 2984¹
 —, ρ -(8-dimethylaminoethyl) 2200⁴
 1 Propanol 3-*N* methylamino- 1813⁴
 Psuedoephedrine, 1831⁴
 2 Pyrrolealdehyde, dimethylpropyl 3009⁴ 3010⁴
C₁₀H₁₇NO₂ 1,1 Cyclopentanediacetamide 3 methyl 4234²
 Ephedrine, ρ -hydroxy, P 4286¹
 Phenethylamine 3 4 dimethoxy, 2981¹ salt 5406¹
 1,3 Propanediol 2 methylamino 1 phenyl and *HCl* 2132²
C₁₀H₁₇NO₃ Benzenesulfonamide, *N* butyl 2704¹
C₁₀H₁₇NO₄ Benzylamine, trimethoxy salt 1226¹ 14
 4 Camphenilancarboxylic acid, 3 keto, oxime, 1822¹
 Ephedrine 3 4 dihydroxy 3072²
 3- Pyrrolecarboxylic acid 2 α hydroxy ethyl 5-methyl, Et ester, 3008²
C₁₀H₁₇NO₅ Benzenesulfonamide *N* (γ hydroxypropyl) *N* methyl, 1813⁴
C₁₀H₁₇N₂ Pyridine 2 amino 4 Δ^3 iso hexenyl, 1254⁴
C₁₀H₁₇N₂O Benzimidazolol, 5 amino-2 3 dihydro 1 2 3 trimethyl, and *hydrochlorides* 4265¹
C₁₀H₁₇N₂O₃ 3- Pyrrolecarboxylic acid, 5 acetyl 2 methyl, Et ester, hydrazone, 3008²
- C₁₀H₁₇N₂O₃** 3 Hydantoicacetic acid piperidine 4228⁴
C₁₀H₁₇N₂ Biquinide α (α methylbenzyl) and salts, 4334¹
C₁₀H₁₇N₂O₃ Burea, 6 amino 1 ethyl 2 thio 3031⁴
C₁₀H₁₇N₂O₄ Histidine asparagyl 3903²
C₁₀H₁₇OP Phosphine oxide dimethyl 2,5-xylol, 2702¹
C₁₀H₁₇O₂P 1 Butanephosphonic acid 4 phenyl, 4239¹
C₁₀H₁₇P Phosphine dimethyl 2 5 - xylol and compd with *HgCl₂* 2702¹
C₁₀H₁₈ (See also *Camphene* *Limonene* *Lopinene* *Pinene*)
 Carene, 5413¹
 Chamen 2424¹
 Compd b 170-5°, from brown-coal gas benzene 3463⁴
 Cyclopentane cyclopentylidene- 2420¹
 Cyclopentene cyclopentyl 2421¹
 1 Decen 4 ine 2112⁴ 2421⁴
 Dipentene 1717¹ 3817¹
 Diprene 5132
 Isochamene 2424¹
 Organene 1512²
 α Phellandrene 1234¹
 Sabinene 3981¹
 Spiro[bicyclo[3 1 0]hexane 6 1 cyclopentane] 3420¹
 Terpinolene 1512²
 Tricyclo[2 2 1 0² heptane, trimethyl 3640¹
C₁₀H₁₉AsNO₃ α -Arsanilic acid *N* butyl 4863⁴
C₁₀H₁₉AuClN Benzyltrimethylammonium chloroaurate 5150⁴
C₁₀H₁₉AuClNO₃ Ethyldimethyl(phenylsulfonyl)ammonium chloroaurate 5150⁴
C₁₀H₁₉BrNO₃ Proline 1 (α bromoisovaleryl), 77¹
 Proline 1 (α bromovaleryl) 77¹
C₁₀H₁₉BrN₂O Alanine *N* [*N* (α bromopropionyl)glycyl] glycyl 2741¹
 Glycine *N* [*V* [*V* (α bromopropionyl)glycyl] alanyl] 2741¹
C₁₀H₁₉Br₂ Pinane dibromo 506²
C₁₀H₁₉Br₂O Pelargonic acid, dibromoketo-, Me ester 71¹
C₁₀H₁₉Br₂O₂ Suberic acid α -(dibromo- α)-dimethyl 919⁴
C₁₀H₁₉ClNO₃ Ethyldimethyl(phenylsulfonyl)ammonium chloride 5150⁴
C₁₀H₁₉ClNO₄ Benzyltrimethylammonium perchlorate 5150⁴
 Ethyldimethylphenylammonium perchlorate 1502⁴
C₁₀H₁₉ClNO₅ Ethyldimethyl(phenylsulfonyl)ammonium perchlorate 5150⁴
C₁₀H₁₉ClN₂O Alanine *N* [*N* (*N* chloroacetylalanyl)glycyl] 2741¹
C₁₀H₁₉Cl₂ Pinane dichloro-, 506²
C₁₀H₁₉CuHgN₂O₄ 5108⁴
C₁₀H₁₉HgIN Ethyldimethylphenylammonium mercuritriiodide 689⁴
C₁₀H₁₉Hg₂N₂Si₂ 5108⁴
C₁₀H₁₉JN Ethyldimethylphenylammonium iodide 1502⁴
C₁₀H₁₉N₂ Camphane 2-diazo-, 507¹
 Cyclopentanone, 2 cyclopentylidene, hydrazone, 2420¹ 4
 Hydrazine 2 ρ cumyl, 1227²
 ρ Phenylethanamine, *N*, *N*, *N'*, *N'* tetra methyl, 5772¹

- C₁₀H₁₆N₂O 1 Butanol 4 methylamino 1 (3 pyr dy) 300
 Ephedrine amino- P 1764¹ P 2574¹
 2 Propanol 1 amino 3 \ methylamino P 1 59¹
- C₁₀H₁₆N₂O₂ Camphor pernitroso 939¹
 o Xylylenediamine 1 o dimethoxy and HCl 1225¹
- C₁₀H₁₆N₂O₂ (see also Soneryl)
 Neonol 1 89
- C₁₀H₁₆N₂O₂ 3 Hydantoinacetic acid isoamyl ester 4 28¹
- C₁₀H₁₆N₂O₂ Carbamic acid \ \ succinyl; di Et ester 3964¹
- C₁₀H₁₆N₂O₂ Lactol 4 5-dihydro-3-glucosyl 84¹
- C₁₀H₁₆N₂O₂ Amverine 3 30¹
- C₁₀H₁₆N₂O₂ P. Adenylylpyrophosphoric acid 3681¹
- C₁₀H₁₆N₂O₂ D-pentaerythritol hexantrate 146¹
- C₁₀H₁₆O₂ (See also Camphor Citral Fenchone Ilxetone Pulegone)
 Carvenone 939¹
 Carveol P 4011
 Carvone dihydro 939¹
 Compd bu 2 5 80-2° from brown coal tar 3463¹
 Cryptal 4532¹
 Δ¹ Cyclohexenecarbaldehyde trimethyl P 1037¹
 Cyclopentanone 2 cyclopentyl 2421¹
 Epucamphor 5106
 Isopulegone 2137¹
 Pinocamphone 3637¹
 Piperitone 939¹ 1234¹ 1512¹ 2137¹
 2 Propanone 1 [3(and 4) methyl Δ cyclohexenyl] 260¹
 — 1 [3 and 4) methylcyclohexylidene 260¹
 Thujone 2124¹
- C₁₀H₁₆O₂ (See also Ascaridole Camphor)
 Acid bu 133-5° from leaf of *Chamaecypar obisus* 2424¹
 Acid bu 140-5° from p-peritone 939¹
 Campholenic acid 4251
 Camphor hydroxy 2990¹ 4570¹
 Cicucol keto 933
 1 4 Cyclohexadiene 1 4 diethoxy 922
 Δ¹ Cyclohexenone 3 hydroxy 5 iso propyl 2 methyl 7319
 Δ¹ Cyclopentenecarboxylic acid α methyl Et ester 260¹
 Diocphenol 2127¹
 Epicamphor 3 hydroxy 4570¹ 4571¹
 Lactone b 246-8° from autoxidation of piperitone 939¹
 α-Valeronic acid Me ester 1¹
 γ-Norcamphancarboxylic acid 1¹ di methyl 1823¹ 3640¹
 γ-Terpene dioxide 3981¹
- C₁₀H₁₆O₂ Cyclohexanecarboxylic acid, 3 keto-1 methyl 2985¹
 2 Indanecarboxylic acid hexahydro 2 hydroxy 3333¹
 Orthoacetic acid phenyl, tri Me ester 2137¹
- C₁₀H₁₆O₂ Acetoacetic acid α (α ethoxy ethylidene), Et ester, 29 6¹
 Camphoric acid 2624¹ 3326¹
 Caryophyllenic acid, mono-Me ester, 2985¹
 1 1 Cyclohexanediacetic acid, 5664¹
- 1 1 Cyclopentanediacetic acid, 3-methyl, and Ag salt, 3315¹, 4234¹
 C₁₀H₁₆O₂S Camphorsulfonic acid, 1511¹, solid, 3322¹ \ Ag salt, 3079¹
- C₁₀H₁₆O₂ 2 Hexanone, o 6 - dihydroxy, di acetate 458¹
- C₁₀H₁₆O₂ 1,3,4 Hexanetricarboxylic acid, 3 methyl, and Ag salt, 4530¹
 Isocamphoric acid, methyl, and Ba salt 3982¹, 3983¹
 Methanetricarboxylic acid, tri Et ester 3625¹
- C₁₀H₁₆O₂ 1-Saccharolactone, methyl trimethyl, 5430¹
- C₁₀H₁₆O₂ Levulonic acid, peroxide, 4438¹
- C₁₀H₁₆S Compd from d limonene and S, 938¹
 Compd from pinene and S, 938¹
- C₁₀H₁₆BrN₂O₂ Asparagine, α bromoisocaproyl-, 3090¹
 Glycine V (\ bromoacetyl)leucyl, 2693¹
 Leucine V (V bromoacetyl)glycyl, 2693¹
- C₁₀H₁₆Cl (See also Camphor, chloro-)
 1,6 Octadiene 3 chloro 3,7 - dimethyl, 4251¹
- C₁₀H₁₆ClMg Bornylmagnesium chloride, 507¹
- C₁₀H₁₆IN₂ Diethylphenylazonium iodide, 2982¹
- C₁₀H₁₆N Anhydrolupanine, 960¹
 Cyclohexylamine \ Δ¹ - butenylidene-, 1809¹
- C₁₀H₁₆NO Camphor oxime 3084¹
 Camphor amino 2990¹
 Pinocamphone oxime 4450¹
 1 Pyrrolethanol α α-diethyl, 1626¹
 2(3) Pyrrolone 5-aryl 1 methyl, 1485¹
- C₁₀H₁₆NO₂ Monoamide, ba. 135°, of mono Me caryophyllenate 2958¹
- C₁₀H₁₆NO₂S α Camphorsulfonamide, 3322¹
 Trimethylphenylammonium methanesulfonate, 1797¹
- C₁₀H₁₆NO₂ Malonic acid allylamino, di Et ester, 1493¹
- C₁₀H₁₆NO₂ Malonic acid, carboxyamino, tri Et ester, 919¹
- C₁₀H₁₆NO₂S₂ See *Singrim*
- C₁₀H₁₆N₂NaO Acetamide α-cyano-Δ heptyl, \ a deriv 3632¹
- C₁₀H₁₆N₂O Camphenidone, semicarbazone, 3639¹
 Δ¹ Cyclohexenone, 4 isopropyl, semicarbazone 4532¹
 Ketone, methyl 4 methyl Δ¹ cyclohexenyl, semicarbazone, 4507¹
- C₁₀H₁₆ (See also Decalin Menhene)
 Bicyclopentyl, 2421¹
 Carvomenthene P 4281¹
 Cyclopentene 3 isopropyl 1 2 - dimethyl, 3981¹
 3 Decine, 2112¹
 Thujone, 3981¹
- C₁₀H₁₆ClN Lupanine chloro-, 960¹ 3347¹
- C₁₀H₁₆ClNO₂ Leucine, N-chloroacetyl, ethyl ester, 2742¹
- C₁₀H₁₆HgN₂O₂ Acetamide, α cyano N heptyl α (hydroxymercu) 3619¹
- C₁₀H₁₆INO Quinolizin (19a) one, hexahydro-, methiodide, 3007¹
- C₁₀H₁₆N₂ Indazole 3,3a 4 8,6,7 - hexahydro-3,3,6 trimethyl, 693¹
- C₁₀H₁₆N₂O Acetamide, α cyano - N - heptyl, 3619¹
- C₁₀H₁₆N₂O Proline, 1 norva yl, 77¹
 Prolone, 1 valyl, 77¹

- 2 - Pyrrolidinedecarboxamide, 1 (α hydroxy isovaleryl)-, 77¹
 —, 1 (α hydroxyvaleryl) 77¹
 C₁₀H₁₉N₂O Quinolizine-1(9a)-one, hexahydro, semicarbazone, 3007⁴
 C₁₀H₁₉N₂O₂ Alanine N [N - (N alanyl glycidylglycyl)], 2741⁴
 Alanine, N - [N (N glycidylalanyl)glycidyl] 2741¹
 Glycine, N [N (N alanylglycidyl)alanyl], 2741¹
 C₁₀H₁₈O (See also Borneol Cineol Citronellal Fenchyl alcohol Geraniol Isoborneol Menhene Terpineol)
 Cyclohexanone, 2 butyl, 1808¹
 Cyclopentanone, 2-cyclopentyl, 2421¹
 Ether butyl Δ^1 -cyclohexenyl, 922¹
 Linalol, 4251¹
 Δ^1 -4-Nonenone, 6-methyl, 3312¹
 1 Pentanone 1-cyclopentyl 1808¹
 Pipentol 1234¹
 C₁₀H₁₈O₂ Camphoric acid 1427¹
 Cyclopentanecarboxylic acid, 3 methyl, Et ester, 4234¹
 Cyclopropanecarboxylic acid 2 hexyl 518¹
 Δ^1 -4 β -Menthenediol, 3981¹
 β Pentenoic acid, β ethyl α methyl Et ester 4521¹
 Sobrerol 4458¹
 C₁₀H₁₈O₂ Acetoacetic acid, α α -diethyl Et ester, 82¹
 Acid m 113-4° from piperitone, and salts 939¹
 Capric acid γ keto-, 1465¹
 Capric acid α acetyl, Et ester 496¹
 Cyclobutanecarboxylic acid 3 amoxy 2979¹
 Levulinic acid, Am ester, 5399¹ isoamyl ester, 496¹, 5399¹
 1 4 β Menthenediol, 2 3 epoxy (?) 3981¹
 Pinolglycol, 4458¹
 C₁₀H₁₈O₂ Malonic acid, diisopropyl, mono-Me ester, 1219¹
 Oxalic acid, di Bu ester 5892¹ diisobutyl ester, 5892¹
 Sebacic acid, P 177¹ 489¹, 3544¹ 3809¹
 Suberic acid, di Me ester, 1238¹
 —, α , γ -dimethyl 919¹
 α -Terpineol, ozonide 2137¹
 C₁₀H₁₈O₂ Acetic acid, α α (ethylenedithio) bis, di Et ester 4393¹
 Δ^1 1,8 Octadimedisulfonic acid 3 6 dimethyl, salts, 2969¹
 C₁₀H₁₈O₂ Butyric acid β hydroxy, Et ester, β hydroxybutyrate, 495¹
 Glutaric acid, α hydroxy α methyl di Et ester 83¹
 Malonic acid (β methoxyethyl), di Et ester, 3908¹
 1 Propanol, 2 2 oxybis diacetate 2416¹
 Xylose, dimethylacetone, 5321¹
 C₁₀H₁₈O₂ Galactonolactone, tetramethyl, 277¹, 1222¹
 Gluconolactone, tetramethyl, 277¹ 1222¹
 Mannonolactone, tetramethyl, 27¹, 1222¹, 5815¹
 C₁₀H₁₉O₂ Glucuronide, 2,3,4 trimethylmethyl, 2118¹
 C₁₀H₁₈O₂ Cyclohexanecarboxylic acid, dithio, Pr ester, 500¹
 C₁₀H₁₅Br Mentane bromo, P 975¹, P 4894¹
 C₁₀H₁₅BrN₂O Lysine N⁶ (α bromopropionyl) N⁶ methyl 2974¹
 C₁₀H₁₅ClO 4 Nonanone, 6 chloro 6 methyl, 3312¹
 C₁₀H₁₅ClO₂ Glucose 1 chlorohydrin, tetramethyl 85¹
 C₁₀H₁₅N 3 Carvomenthenamine, and HCl, 1234¹
 Cyclohexylamine, N butylidene-, 1809¹
 Lupinane 960¹ salts, 3006¹
 C₁₀H₁₅NO Allolupinane, 3005¹
 Citronellal oxime, 2688¹
 Cyclohexanone, 2 butyl oxime, 1808¹
 Lupinane P 775¹ 960¹, 3005¹, 4004¹, 4005¹
 Menthone, oxime 5207¹
 Tertiary amine from Anabasis aphylla and HCl, 3347¹
 C₁₀H₁₅NO₂ Caproic acid α (aminoethylidene) Et ester 5394¹
 Cyclobutanecarboxamide, 3-amoxy, 2979¹
 Dimethylamine α α bis(tetrahydro 2 furyl), 5163¹
 C₁₀H₁₅NO₂ Malonamic acid α , α - diisopropyl Me ester 1219¹
 C₁₀H₁₅NO₂ Propionic acid, β β iminobis di Et ester, HCl 4268¹
 C₁₀H₁₅NO₂ Glycine Et ester, glucoside, 4231¹
 C₁₀H₁₅N₂O Cyclohexanone, 4 isopropyl, semicarbazone 4533¹
 Cyclooctanone 2 methyl, semicarbazone, 3972¹
 Ketone methyl 4 methylcyclohexyl, semicarbazone 460¹
 C₁₀H₁₅N₂O₂ Levulinic acid, Bu ester, semicarbazone 496¹ isobutyl ester, semicarbazone, 490¹
 Pelargonic acid, γ -keto-, semicarbazone, 3972¹
 C₁₀H₁₅N₂O₂ Glycine, N (N leucylglycidyl) 117¹
 C₁₀H₁₅N₂O₂ + H₂O Carbohydramide α isopropylidene - δ (1 piperidylcarbonyl) 4269¹
 C₁₀H₁₆ Cyclopentane 1 isopropyl 2,3 di methyl 3981¹
 β Menthane, 1717¹
 C₁₀H₁₆Br₂ Decane dibromo-, 485¹ 684¹ 5601¹
 C₁₀H₁₆Cl₂ Decane, 1,10-dichloro-, 5665¹
 C₁₀H₁₆Cl₂O 5 Nonanol, 5 (dichloromethyl), 2112¹
 C₁₀H₁₆FeN₂O₂ 3586¹
 C₁₀H₁₆IN Methiodide, m 333 5°, of base b.p. 43-5°, 3007¹
 Quinolizane, octahydro-, methiodide, 3007¹
 C₁₀H₁₆I₂O₂ Dipentaerythritol, duodehydric, 1487¹
 C₁₀H₁₆N₂ Bupiperidine, 960¹
 Lupinane, 11 amino-, 3007¹
 3 Pentanone, azide, 2415¹
 C₁₀H₁₆N₂O₂ Adipamide, N, N, N', N' - tetramethyl, 1218¹
 C₁₀H₁₆N₂O₂ 3 Heptanol, δ - methyl, allophanate, 3312¹
 2 Hexanol, 3,4 dimethyl, allophanate, 3312¹
 C₁₀H₁₆N₂S₂ Piperidine, 1,1'-dithiois-, P 1538¹
 C₁₀H₁₆N₂S₂ Piperidine, 1,1' trithiois- 4853¹
 C₁₀H₁₆N₂S₂ Piperidine, 1,1' tetrathiois-, 4853¹
 C₁₀H₁₆N₂O₂ 1,2 - Cyclopentanedicarboxylic acid, 2 ethyl 3-keto-1 methyl, dihydrazide hydrazone, 4530¹
 C₁₀H₁₆O (See also Citronellol M

- (cyclohexanol butyl 1808⁴ 4234⁴
 4-ethyl 4734⁴
 — 4-cyclohexyl P 303
 4-Decanone 961
 1,4-Menthanol P 303⁴
 Nonanone methyl 9611³
 1-phenyl-4-methyltetrahydro 684³
 Rhodiol 103⁴
- C₆H₁₀O₄** (see also *Terpinol*)
 Acetic acid octylester 2701
 Capric acid 1486⁴ 2014 2971⁴ 5663³
 Caproaldehyde α butyl α hydroxy
 2113³
 Caprylic acid Et ester 5473
 Cyclohexanone di Et acetal 9-2
 Enanthic acid β methyl Et ester 362³
 Glycol butyl-2 from piperitone 939
 Octanal acetate 8³
 Pelargonic acid β methyl 362⁴
- C₆H₁₀O₃S** Capric acid α mercapto 96-⁴
C₆H₁₀O₃Cl codesoside trimethyl(methyl) 495⁴
 Myracol tetra Me ether 5149
C₆H₁₀O₃ Fructopyranose 1343 tetra-
 meth 5815
 Fructose trimethylmethyl 29 8⁴
 Glucoside 3-6 trimethyl β methyl
 butyl
 Tetramethoxyketone m 90-6⁴ 1223³
- C₆H₁₀O** (lucenic acid 23-6 tetramethyl
 butyl 576⁴)
- C₆H₁₀O₂** Disilane m 170 from isoprene
 sulfone —
- C₆H₁₀Br** Naphane 1-trimethyl 362³ 3628³
C₆H₁₀ClO 1-Decanol 10-chloro 5390
C₆H₁₀ClO₂ Methane (β amoxy β chloro
 isopropyl)methoxy 29 9⁴
- C₆H₁₀N₃** Butenylamine γ , γ β trimethyl
 and salt 433
 Compd from Et₄N₃Br and CH₃ClCO γ Et₂
 2116⁴
- Cyclohexylamine γ butyl and HCl
 1809
 Menthylamine 692⁴ 1273
 Piperidine 2-ethyl 3628³
- C₆H₁₀NO** 1-Iperideneptanol 1813⁴
C₆H₁₀NO₂ Caproic acid β -ethylammonio-Et ester
 and HCl 117⁴
 Caprylic acid β -ethylammonio 117⁴
 Leucine isobutyl ester HCl 2742
C₆H₁₀NO₃ Galactonamide tetramethyl 4224⁴
 Glucosamide tetramethyl 4224⁴
- C₆H₁₀N₂O** Semicarbazone m 114-5⁴ from
 oxidation product of C₆H₁₀OH 3463³
- C₆H₁₀N₂O₂** Lysine γ , γ amyl γ methyl
 2974⁴
- C₆H₁₀O₂P** Methyl phosphate 363⁴
C₆H₁₀ (see also *Decane*)
 Octane dimethyl 3-6 4846³ 5137³
 5322³
- C₆H₁₀HgS₂** *tert* Amyl mercaptan Hg deriv
 3718⁴
- C₆H₁₀N₂** Pentane 3-3 azolus 2416⁴
C₆H₁₀N₂O Acetamide α diethylammonio γ , γ
 diethyl, and chloroacetate 2118⁴
- C₆H₁₀N₂O₂** 1,4-Piperazinediethanol α , α
 dimethyl 5170⁴
- C₆H₁₀N₂** Charamidine 4 HCl 5665³
C₆H₁₀N₂S₂ Isodourea γ , γ octamethylene-
 (thio di HCl 5665³)
- C₆H₁₀N₂O₂** 3-Heptanone, 5-methyl
 semicarbazone, semicarbazide compd
 3312
- C₆H₁₀O** Amyl ether, 5322⁴
- Decyl alcohol, 4223⁴
 Isoamylether, 4203⁴ 4219⁴
 Nonanol methyl, 3627⁴ 3628⁴ 4845⁴
C₆H₁₀O₂ 1,10-Decanediol 1798⁴
C₆H₁₀O₂S₂ 1-Butanesulfonic acid, 3-methyl
 thiol, isomylester, 1812⁴
C₆H₁₀O₂ Butyraldehyde, α ethyl α hydroxy,
 di Et acetal, 2112⁴
C₆H₁₀O₂S Isoamyl sulfite, 1797⁴
C₆H₁₀O₂ D-pentacerythritol, 1486⁴
C₆H₁₀NO 3-Hexanol, 6-dimethylammonio 3-
 ethyl and HCl, 4-25⁴
 3-Pentanol, 3-(diethylammonioethyl),
 4525⁴
- C₆H₁₀N₂O₂Zn** + H₂O, 2600⁴
C₆H₁₀AsCl₂Hg Methyltripropylarsonium chloro-
 ride, HgCl₂ deriv, 1485⁴
C₆H₁₀AsI Methyltripropylarsonium iodide,
 1485⁴
- C₆H₁₀CdHgN₂Se₂**, 1754⁴
C₆H₁₀ClN Dusoamylammonium chloride, 2626⁴
C₆H₁₀HgN₂Se₂, 1754⁴
C₆H₁₀HgN₂Se₂Zn 1754⁴
- C₆H₁₀N₂** 1,6-Hexanediamine γ , γ , γ , γ -
 tetramethyl and salt, 1218⁴
 Hydrazine, γ bis(α -ethylpropyl), and
 hydrochlorides 2415⁴ 2416⁴
- C₆H₁₀N₂N₂S₂** + H₂O 1177⁴
C₆H₁₀Si Silicane triethylsilylbutyl, 4536⁴
C₆H₁₀Sn Stannane, diethylpropyl, 4863⁴
C₆H₁₀ClCrN, 3087⁴
C₆H₁₀As₂N₂O₂W₁₂ + 4H₂O, 469⁴
C₆H₁₀N₂O₂Sb₂W₁₂ + 2H₂O 469⁴
C₆KLaO₂ + 3H₂O Lanthanum potassium
 oxalate 96, 81⁴
- C₆La₂N₂O₂W₁₂** + 3H₂O Lanthanum sodium ox-
 alate 2658⁴
- C₆H₁₀Br₂O₂** 2-Naphthoic acid, 4,7,8-tribromo
 3-hydroxy 945⁴
- C₆H₁₀Br₂NO₂** Naphthalene tetrabromo 1-
 methyl-4-nitro 1515⁴
- C₆H₁₀ClO₂** 1,2-Thionaphthenedicarboxylic
 anhydride, chloromethyl, 5165⁴
- C₆H₁₀Cl₂NO₂** 2-Isomindoleacetic acid, 4,5,6,7-
 tetrachloro 13-diketo, Me ester
 337⁴
- C₆H₁₀ClO₂** 2-Naphthoyl chloride, 3-iodo,
 2140
- C₆H₁₀BrO₂** 2-Naphthoic acid, bromo 3-
 hydroxy P 3361⁴
- C₆H₁₀BrO₂S** 2-Thionaphthenedicarboxylic acid,
 1-trimonoethyl 5167⁴
- C₆H₁₀Br₂ClO₂** 1,3-Benzodioxan 6-carboxylic
 acid 4-tromo 4-(1-trimonoethyl)
 2-(dichloromethyl), 5478⁴
- C₆H₁₀BrO₂** Naphthalene carbonyl 3-4-6-tri-
 bromo 946⁴
- 2(1) Naphthalene 1-4-6-tribromo 1-
 methyl 946⁴
- C₆H₁₀ClO₂** 2-Naphthoyl chloride, 3-hydroxy
 2146⁴
- C₆H₁₀ClO₂S** 1,2-Thionaphthenedicarboxylic
 acid chloromethyl, 5165⁴
- C₆H₁₀Cl₂O₂** Maleic acid methyl γ 2,4,6-
 trichloroanilino, 5406⁴
- C₆H₁₀ClO₂** 1,3-Benzodioxan 6-carboxylic
 acid 4-(chloromethyl) 2-(dichloro-
 methyl) 5428⁴
- C₆H₁₀Cl₂O₂** 1,3-Benzodioxan 6-carbonyl
 chloride 2-4-bis(dichloromethyl),
 1754⁴
- C₆H₁₀O₂** 2-Naphthoic acid 3-iodo- 2140⁴
C₆H₁₀N Naphthamine, 100⁴, P 517⁴

- C₁₁H₉NO Isocyanic acid, 1 naphthyl ester, 4795¹
Naphthostyryl, P 1268²
- C₁₁H₉NOS Thiocyanic acid, 4 hydroxy 1-naphthyl ester, P 1258²
- C₁₁H₈NO₂ β-Naphthosazol-2(1) one, 2423², 2424¹
Nordacetamide, 29²
- C₁₁H₇NO₂ 2 Naphthoic acid, 3 hydroxy 4 nitroso-, 4877²
- C₁₁H₇NO₂ 4 *para*-Naphthazolesulfonic acid 1,2-dihydro-2 keto-, P 1066²
- C₁₁H₇N₂O₃ 3 Pyrazolemtrile, 1 (2,4 dinitro phenyl) 3 methyl-, 1247¹
- C₁₁H₇BrNOS Ketone, bromomethyl 4 phenyl 2 thiazyl, 2722²
- C₁₁H₇BrNO₂ Naphthalene, bromo 1 methyl 4 nitro-, 1515²
- C₁₁H₇BrO₂ 2 Naphthalenecarbinol 3,6 di bromo-, 946²
- C₁₁H₇ClNO₂ Ketone, chloromethyl 8 hydroxy 5-quinolyl, *and derivs*, 106²
- C₁₁H₇ClNO₂ Thiazole, 4 (chloromethyl) 2 (3,4 methylenedioxyphenyl), 952¹
- C₁₁H₇ClNO Ketone, 2 methyl 3-indyl trichloromethyl, 2720²
- C₁₁H₇ClO₄ 1,3 Benzodioxan 6 carboxylic acid, 2 4-bis(dichloromethyl) 5428²
- C₁₁H₇INO₂ 2 Naphthamide, 3 iodo-, 2140¹
- C₁₁H₇INO₂ Naphthalene, (iodonitromethyl) 923¹
- C₁₁H₇N₂ 2 9 Pyridindole, 300²
- C₁₁H₇N₂O₂ Isocyanic acid, 6 methoxy 4 quinolyl ester, 903²
Propionitrile, β phthalimido- 2722²
- C₁₁H₇N₂O₂ Barbituric acid, 5-benzal 4183²
Butyranitrile, α β diketone, α oxime, Bz deriv., 3621²
Ketone, 8 hydroxy 7 nitroso- 5 quinolyl methyl 2728¹
- C₁₁H₇N₂S α Naphthothiazole, 1 amino, P 968²
4 Thiazoleacetamitrile, 2 phenyl-, 952²
- Thiocyanic acid, 4-amino-1 naphthyl ester, P 5356¹
- C₁₁H₇O 1 Naphthaldehyde, 505²
- C₁₁H₇O₂ Ketone, phenyl thienyl, 2719²
- C₁₁H₇O₂ (See also Naphthoic acid)
Naphthaldehyde, hydroxy, P 1536², 2145², P 3012²
- C₁₁H₇O₂ 2 Naphthoic acid hydroxy, 302², 503², P 3361², 3604², 4855²
- C₁₁H₇O₂ 2 Thionaphthenecarboxylic acid, 1 acetyl-, 5167²
- C₁₁H₇O₂ 1 Indanacetic acid, 2 3-diketo-, 5161²
- C₁₁H₇O₂ Compd, m 171², from acid m 202², 1499²
- C₁₁H₇BrO Ether, 3 bromo-2 naphthylmethyl 945²
2 Naphthalenecarbinol, 3 bromo-, 946²
- C₁₁H₇BrNO Ketone, dibromomethyl 2 methyl 3 indyl, 2720²
- C₁₁H₇BrNO₂ 3 Indolecarboxylic acid, 5,6 di bromo-, Et ester, 700²
- C₁₁H₇Cl Naphthalene 1 (chloromethyl), P 711², P 716², P 2005²
- C₁₁H₇ClN₂O₂ Quinolone, 2-chlorodimethylamino-, 296², 1²
- C₁₁H₇ClN₂O₂ Glyoxime, chloro-, Ac Bz deriv., 79²
- C₁₁H₇ClO Ether, 3 chloro 2 naphthyl methyl, 2139²
- C₁₁H₇ClO₂ Naphthalenesulfonyl chloride, methyl, 1241², 1515², 4877²
- C₁₁H₇ClO₂ 2 Naphthalenesulfonyl chloride 3 methoxy-, 2138²
- C₁₁H₇ClO₂ 3 Glyoxylic acid, [(carboxymethyl mercapto)chlorotolyl], 5165²
- C₁₁H₇ClNO Ketone, dichloromethyl 2 methyl 3 indyl 2720²
- C₁₁H₇ClNO₂ 1,3 Benzodioxan 6 carboxamide, 2,4 bis(dichloromethyl) 5428²
β Diacetamide, 2,3,5,6 tetrachloro-, 5153²
- C₁₁H₇H₂NO₂ Quinolone acetoxymercure 5127²
- C₁₁H₇IN₂O₂ 8 Quinolol 5 acetamide 7 iodo-, *and HCl*, 954¹
- C₁₁H₇INO Ketone duodimethyl 2 methyl 3 indyl 2720²
- C₁₁H₇N Pyridine phenyl 2720²
- C₁₁H₇NO 2 3 Cyclopentindol 1(2) one 3 8-dihydro-, 4850²
Ketone phenyl pyrrol 145², 2484², 3397²
Pyridine 4 phenoxy 296¹
- C₁₁H₇NOS Ketone, methyl 4 phenyl 2 thiazyl 2722²
- C₁₁H₇NO Ketone 8 hydroxy 5 quinolyl methyl 2727² *and derivs* 106²
Naphthaldehyde hydroxy, oxime 2140², 3589²
Naphthalene 1 methyl-4 nitro 1515²
2 Naphthoic acid 3 amino P 4012², P 4008²
8 Quinolnecarboxylic acid, 4 methyl P 3668²
- C₁₁H₇NO₂ 4 Thiazoleacetic acid, 2 phenyl *and HCl* 952¹
- C₁₁H₇NO₂ Cinchoninic acid 6 hydroxy, Me ester, 954¹
Diethylmal 297¹
3 Indoleglyoxylic acid 2 methyl, 2721²
Ketone 7 8 dihydroxy 5 quinolylmethyl *and HCl* 2728¹
Quinonic acid 953², 1530²
5 Quinolnecarboxylic acid 8 methoxy 2727²
- C₁₁H₇NO₂ Afaninic N phthalyl, 2118²
Diethylmalic acid, 29²
1 Indanacetic acid 2 3-diketo 2 oxime 5162²
Indoxyllic acid, 1 acetyl, 2144²
2 Isoindolnecarboxylic acid, 1,3-diketo-, Et ester, 3993²
3 Quinolnecarboxylic acid 4 hydroxy 2-methoxy, 297²
- C₁₁H₇NO₂ 1 Naphthoic acid, amino-sulfo-, P 1090², P 1263²
- C₁₁H₇N₂O₂ Formohydroxamamide, N acetyl-α cyano-, Bz deriv., 81²
Furazan 3-acetyl 4 benzamido-, 3622²
- C₁₁H₇N₂O₂ Phenol 2,4 dinitro- compd with pyridine, 2726²
- C₁₁H₇N₂O₂ Benzoyl deriv. m 218² (decomps), of compd m 180-90² (decomps), 1248²
- C₁₁H₇N₂O₂ Pyrazobenzotriazine, 4 formyl 4,5-dihydro 5-hydroxy-2 methyl-7 nitro- 5-oxide, 1246²
- C₁₁H₇N₂O₂ 2,3-Indolecarboxylic acid, 5 7 dinitro-, 2 hydroxy 3 Me ester, 3349²
- C₁₁H₇N₂O₂ 2 Indolecarbamie acid, 3,5,7 trinitro-, Et ester, 3349²
- C₁₁H₇ (See also Naphthalene, methyl)
1 Penten-4 one 5 phenyl-, 2421²
- C₁₁H₇BrClN₂O Acetic acid, α (2 bromo-β tolyl) - β (β-trichloroethylidene) hydrazide, 4244²
- C₁₁H₇BrNO Quinaldin, 4-bromo-6-methoxy, 1528²

- C₁₅H₁₆BrNO₂ Cinnamaldehyde bromo- oxime
Ac deriv 1819^a
3-Indolecarboxylic acid 6-bromo-, Et ester,
700^a
- C₁₅H₁₆Br₂O Acetic acid, benzoyl dibromo-
Et ester 71^a
- C₁₅H₁₆ClNO₂ Thiazole 2 p amyl 4 (chloro-
methyl) 9o2^a
- C₁₅H₁₆ClNO₂ 1 (2,5 Dihydroxyphenyl)
pyridinium chloride 3905^a
- C₁₅H₁₆Cl₂O₂ Glutaryl chloride δ phenyl, 5161^a
- C₁₅H₁₆HgO₂ δ Resorcyaldehyde 3 δ bis
(acetoxymercur) 287^a
- C₁₅H₁₆N₂ Pyridine amino- 110^a 3993^a
- C₁₅H₁₆N₂O 2 Furaldehyde phenylhydrazon
5163^a
3 Indoleacetone strike 6 methoxy 700^a
2 Naphthamide 3 amino P 2153^a
2 9 Pyridindol 1 y) one 3 4 dihydro-
4880^a
- C₁₅H₁₆N₂O₂ 2 4 1 Benzothiazin 1 one 3
(allylamino) 300^a
2 4 (1 3) Quinoxalinedione, 3 allyl 2
thio 300^a
- C₁₅H₁₆N₂O₂ Base m 258^a from fusion of keto
yobutene with KOH 3003^a
Ketone ~ amino 8 hydroxy 5 quinolyl
methyl and HCl 2728^a
— 8-hydroxy α-quinolyl methyl oxime
106^a
1 Naphthylamine 4 methyl 2 nitro-
715^a
Quinolol 5 acetamido and acid sulfate
954^a
Uracil methylphenyl 5167^a
- C₁₅H₁₆N₂O₂ Propionamide β phthalimidethio
2722^a
- C₁₅H₁₆N₂O₂ Carbostyryl dimethylurea 2967^a
Ketone 7 8 dihydroxy 5 quinolyl
methyl oxime 2728^a
Rutonal 4358^a
- C₁₅H₁₆N₂O₂ 3 Ilydantoinacetic acid Ph ester
4225^a
1 Indanacetic acid 2 3-diketo dioxime
5162^a
3 Indolecarboxylic acid 6-nitro Et ester
700^a
3 Oxazoline 4 5 epoxy 4 5 dimethyl 2
(m and p) nitrophenyl 294^a
Quinolone 5 6-dimethoxy 6-nitro- P 5434^a
- C₁₅H₁₆N₂O₂ 2 4 Quinoxalinediol dimethoxy
nitroso- 2954^a
- C₁₅H₁₆N₂O₂ Furazan 2-acetyl-4-amino- oxime
Bz deriv 3622^a
- C₁₅H₁₆N₂O₂ Pyrazole 1 (2 4 dinitrophenyl)
3 5 trimethyl, 3320^a
- C₁₅H₁₆N₂O₂ Pyrazole 1 (2 4 dinitrophenyl)
5-methoxy 3 methyl 1246^a
- C₁₅H₁₆N₂O₂ 2 Indolecarbamide acid 5 ~ di
nitro- Et ester 3449^a
- C₁₅H₁₆N₂S 2 2 Triazinemercaptan 4 amino-6-
styryl, 2730^a
- Urea, α,β-di 3 pyridylthio- and HCl 3345^a
- C₁₅H₁₆O₂ Ether, methyl 2 naphthyl, 1797^a
2140^a
Naphthol methyl 1241^a 5155^a 4877^a
C₁₅H₁₆O₂ 1 Naphthyl mercaptan 2 methoxy,
3330^a
- C₁₅H₁₆O₂ Coumarin 3 4 (and 4 7) dimethyl
4542^a
1 Naphthol 5-methoxy, 484^a
α 7-Pentadecanone acid β-phenyl, 1161^a
Propionic acid phenyl, Et ester, 71^a
- C₁₅H₁₆O₂S 2 Thionaphthene-carboxylic acid, 1
ethyl 5167^a
- C₁₅H₁₆O₂ Δ² Butenone, 4 (3 4 methyleu-
dioxyphenyl), 4277^a
- Cinnamaldehyde, α methyl 3,4-methylene-
dioxy, 1230^a, 4247^a
- 1 Indanacetic acid 3 keto-, 1835^a, 5161^a
1 3 Indandione, 4-hydroxy 2,7-dimethyl,
2718^a
1 2 4 Pentametrone 1 phenyl, 5411^a
Umbeiblerone, 3,4-dimethyl, 4251^a, 4869^a,
5420^a
- C₁₅H₁₆O₂S 2 Naphthalenesulfonic acid, 3-
methoxy, and K salt, 2128^a
Naphthalenesulfonic acid, methyl, 4877^a,
and salts, 1241^a and Na salt, 1515^a
- C₁₅H₁₆O₂ (See also 1 isomeric)
Acid m 202 3^a, from dihydrocannabitol,
518^a
Chromone dihydroxy 2 3-dimethyl, 4200^a,
5671^a
Coumarin dihydroxy-3,4 dimethyl, 4250^a,
5671^a
— 6 ~dimethoxy, 2710^a
1 3 Indandione, 4-hydroxy 6-methoxy 2
methyl 2140^a
4 Isobenzofurancarboxylic acid, 1,2 dihydro-
1 keto-, Et ester, 3320^a
Paraconic acid 2 phenyl, 1813^a
- C₁₅H₁₆O₂ Hydrocinnamic acid, α-(carboxy-
benzyl), 5162^a
Phthalide 4 hydroxy-3 methoxy, acetate,
2150^a
β Resorcyaldehyde diacetate, 933^a
- C₁₅H₁₆BrN₂O₂ Hydrouracil 5-bromo 1 methyl-6
phenyl, 517^a
- C₁₅H₁₆BrN₂S Thiazole 5-bromo-4 methyl 2 p-
tolueno- 4881^a
Thiazole, 2 (2 bromo-p tolueno) 4 methyl,
4881^a
- C₁₅H₁₆BrN₂O₂ Glyoxylic acid, bromo-, Et ester,
2,6-dibromo-p tolylhydrazon, 4244^a
- C₁₅H₁₆Br₂O Benzyl alcohol, α-(tribromo-
methyl), propionate 505^a
- C₁₅H₁₆Br₂O Ether, isomyl pentabromophenyl,
1815^a
- C₁₅H₁₆ClN₂O₂ Anthranic acid 4 (4-chloro-
acetylglucyl), 4285^a
- C₁₅H₁₆ClN₂O₂ Tyrosine, N-chloroacetyl 2 nitro-,
2941^a
- C₁₅H₁₆ClN₂ 3 α Dimethyl 1 phenyl 4 pyrazole
azomium chloride, 1523^a
- C₁₅H₁₆Cl₂O Acetophenone, α trichloro-2,4 6-tri-
methyl, 935^a
- C₁₅H₁₆Cl₂O₂ Acetophenone, α-trichloro-2 (and 4)
methoxy-4,6 (and 2 6)-dimethyl, 935^a
- C₁₅H₁₆Cl₂O₂ 2 Propanol 1,3-dichloro-, 5-chloro-
2,4-cresotate, 3636^a
- C₁₅H₁₆CuO₂ 1,3 Butanedione, 1 p tolyl, Cu
deriv, 4881^a
- C₁₅H₁₆HgNO₂ Indole, 3 (acetoxymercur) 2-
methyl 701^a
Ketone, 2 (acetoxymercur), 701^a
- C₁₅H₁₆N 1 Naphthosulfonate, 5,6,7,8-tetrahydro-,
936^a
2 Naphthylamine, 5-methyl, 1241^a
Pyrrole 2 methyl-4 phenyl, 3999^a
Quinolone 3,4-dimethyl, P 3665^a and
HCl 704^a 705^a
— ethyl, P 3665^a and salts, 1820^a
- C₁₅H₁₆NO Acetonitrile 2,4 xyloyl 504^a
Cinnamomitrile, β-ethoxy, 1819^a
Isosaxone, 3-methyl 5-p-tolyl, 4881^a.

- Lepidine, methoxy, P 3668¹
 2 Naphthylamine, methoxy, P 30, 2138¹
 Quinolone, 8-methoxy 5-methyl, and chloro-
 platinate, 951¹
 C₁₁H₁₁NOS Thiazole, 5-ethoxy 2 phenyl 1247¹
 2-Thiazolecarbamol, α methyl 4 phenyl
 2722¹
 Thiocyanic acid 2,4 dimethylphenacyl ester
 509¹
 C₁₁H₁₁(NO₂) Rhodamine, 3 phenethyl, 4241¹
 C₁₁H₁₁NO₂ Glutarimide, N phenyl 2418¹
 Ifomammonitrile α acetyl 691¹
 3 Isoleucic acid, Et ester 700¹
 Oxazole 5 ethoxy 2 phenyl 124¹
 Δ¹ Oxazoline, 4,5 epoxy 4,5 dimethyl
 2 phenyl, and HCl 294¹
 Quinolone 6,8-dimethoxy, P 1336¹
 4-Quinolone 6-methoxy 2 methyl 1528¹
 4(1) Quinolone 1 acetyl 2,3-dihydro- 106¹
 C₁₁H₁₁NO₂S Naphthalenesulfonamide methyl
 1241¹, 1515¹, 487¹
 C₁₁H₁₁NO₂S₂ Acetic acid [(1 5-dimethyl 4
 benzothiazolyl)mercaptol], 4550¹
 C₁₁H₁₁NO₂ Cinnamaldehyde, α methyl 3 4
 methylenedioxy oxime 1230¹
 3 Isoleucic acid α hydroxy 2 methyl
 and silver salt, 2720¹
 Isoleucic acid 2446¹
 Mandelonitrile p-methoxy, acetate 2981¹
 Δ¹ Oxazoline 4 5-epoxy 4 5-dimethyl 2
 naphyl, 294¹
 C₁₁H₁₁NO₂S₂ Acetic acid [(3 4 dihydro-3 keto-7
 methyl 6 1,4,2 benzothiazyl)mer-
 capto], 4550¹
 C₁₁H₁₁NO₂ Cinnamic acid nitro Et ester
 2143¹
 Δ¹Oxazoline 2 (2 4-dihydroxyphenyl)-4 5-
 epoxy 4 5-dimethyl 204¹
 2 4 Quinolinediol dimethoxy 298¹
 C₁₁H₁₁NO₂ Acetic acid (benzoylimino)bis
 2143¹
 Aspartic acid, N benzoyl 1231¹
 Oxamic acid α-carboxy di Me ester,
 2148¹
 Phenol m (β-nitrovinyl) ethylcarbonate
 4552¹
 Propionic acid, β (nitro-p tolyl) 519¹
 C₁₁H₁₁NO₂S₂ 1,3-Naphthalenedisulfonic acid
 4 (ammonomethyl) P 324¹
 C₁₁H₁₁NO₂ Oxamic acid 2-carboxy 4 5 di
 methoxy, 2148¹
 C₁₁H₁₁N₂ Pyrimidine 2-amino-4 p tolyl 1254¹
 C₁₁H₁₁N₂O Guanidine α-(7 hydroxynaphthyl),
 P 5041¹ and HCl P 5298¹
 Pyrimidine, 2-amino-4 p anisyl 1254¹
 C₁₁H₁₁N₂O₂ Glyoxylic acid, cyano- Et ester
 phenylhydrazide, 2895¹
 Quinonic acid, hydrazide, 953¹
 C₁₁H₁₁N₂O₂S 1,3,4 6-Thiodiazin 5-ol 2 amino-
 Ac deriv, 3002¹
 C₁₁H₁₁N₂O₂ 3 Hydantoineacetamide, 4228¹
 C₁₁H₁₁N₂O₂ Glyoxime, amino-, Ac Br deriv,
 80¹ 81¹
 C₁₁H₁₁N₂ Pyridine 2 6-diaminophenylazo
 HCl P 2441¹, P 4361¹ P 5678¹
 C₁₁H₁₁N₂O₂S 2,2 Transmercaptan 4-amino-6-
 ethyl, picrate 700¹
 C₁₁H₁₁AsNO₂ 6-Quinolonecarboxylic acid, 2 hydroxy
 4 7 (and 4 8)-dimethyl, and salts 266¹
 C₁₁H₁₁BrClN₂S Benzothiazole 3 bromo-5-chloro-
 1-isobutylamino- 4881¹
 C₁₁H₁₁BrNO₂ Alanine, N bromoacetyl β phenyl
 2693¹
 2 Pyrrolecarboxylic acid, 4 (β-bromovinyl)-5-
 formyl 3 methyl Et ester, 1520¹
 C₁₁H₁₁BrNO₂ Anthranic acid, 4 bromo N
 (carboxymethyl), di Me ester, 1522¹
 C₁₁H₁₁BrN₂O₂ Glyoxylic acid Et ester, 2 6-di-
 bromo-p tolylhydrazide 4244¹
 Glyoxylic acid bromo- Et ester, 2 bromo-
 p tolylhydrazide 4244¹
 C₁₁H₁₁BrO₂ Phenol p (α,β-dibromopropyl),
 acetate 4538¹
 C₁₁H₁₁BrClN₂S Benzothiazole 3 bromo 5-chloro
 1-isobutylamino dibromide 4881¹
 C₁₁H₁₁ClIN₂O 4 Pyrazolol, 1 (p-chlorophenyl) 5
 methyl methiodide 3342¹
 C₁₁H₁₁ClNO Isoquinoline, 1 (chloromethyl) 3 4
 dihydro 6 methoxy HCl, 1531¹
 C₁₁H₁₁ClNO₂ Acetamide, α-chloro V (3 4
 methylenedioxyphenethyl), 1530¹
 Hydrocyanamic acid, β (α-chloroacetamide)
 2694¹
 C₁₁H₁₁ClNO₂S 2 5 Pyrroledicarboxylic acid 3 (β
 chlorovinyl) 4 methyl, Et ester 962¹
 Tyrosine N chloroacetyl 2694¹
 C₁₁H₁₁ClN₂ See Pyridine
 C₁₁H₁₁ClO₂ 2-Propanol 1 3-dichloro, cresolate
 3638¹
 C₁₁H₁₁ClNO₂ Anisamine 2 6-dimethyl-α (tri
 chloromethyl) HCl 935¹
 Benzalmine 2 methoxy 4 6-dimethyl-α (tri
 chloromethyl) HCl 935¹
 C₁₁H₁₁Cl₂NO₂ 2 Pyrrolecarboxylic acid 3 5-di-
 methyl-4 trichloroacetyl Et ester 3008¹
 C₁₁H₁₁HgN₂O₂ Acetoxyde, α-cyano-α-(hydroxy
 mercuri) 3619¹
 C₁₁H₁₁N₂ Pyrazole 3 methyl 5 p tolyl 4851¹
 2 9 Pyridindole, 1,2 3 4 tetrahydro 301¹
 C₁₁H₁₁N₂O (See also Anispyrine)
 Carbostyryl ammodimethyl and HCl
 266¹, 24
 4-Pyrazolol 5-methyl 1 tolyl 3342¹
 C₁₁H₁₁N₂O₂ Benzothiazole, 5 methyl 1 N
 methylacetamide- 104¹
 Benzothiazoline, 1 (acetylmino) 2 5 di
 methyl, 103¹
 4-Thiazolemethylamine, 2 p anisyl, and di
 HCl, 952¹
 C₁₁H₁₁N₂O₂ (See also Trypophan)
 Hydrous acid, methyl-6-phenyl, 518¹, 517¹
 3-Isoleucic acid, 6 amino, Et ester
 and its salts 700¹
 1 Pyrroledithanol, 2 pyrrolecarboxylate,
 1525¹
 Quinolone, 8 amino 5,6-dimethoxy, P 5434¹
 C₁₁H₁₁N₂O₂S Benzothiazole, 1 acetamide-5-
 ethoxy, 104¹
 Benzothiazoline, 2 acetyl 5-ethoxy 1 amino-
 and hydroxydibromide, 104¹
 Pyrocatechol, 4 - [2 (β-aminoethyl) 4 -
 thiazyl, and sulfate, 2722¹
 C₁₁H₁₁N₂O₂S Benzoic acid, α-(2 m-dithiazylidene-
 hydrazine) 2697¹
 C₁₁H₁₁N₂O₂ Compd, m 88-90°, from benzyl
 amine and benzaldehyde 2 methylsemicar-
 bazono, 2701¹
 Pyruvic acid, α-tolylhydrazide, 1821¹
 C₁₁H₁₁N₂O₂ (See also Kynurenic acid)
 Asparagine, N¹ benzoyl, 278¹, 2615¹
 Glutamic acid, α γ-decylano-, di Et ester,
 2119¹
 C₁₁H₁₁N₂O₂ Alanine, N-(m nitrobenzoyl), Me
 ester, 2117¹, 2115¹
 C₁₁H₁₁N₂O₂ 1,2,4 Triazol 3(2)-one, 5-methyl 2-
 p-tolylthiocarbonyl, 3651¹

- C₁₁H₁₇N₃O₅ 3 Propanone 1 (4 5-methylenedioxy nitrophenyl), semicarbazone, 33 4
- C₁₁H₁₇N₃O₅ 3 Thiazolone 4 p-tolyl thiosemicarbazone 1532³
- C₁₁H₁₇N₃O₅ Histamine monopicate, 99⁷³ 539⁷⁴
- C₁₁H₁₇O₃ 3 Benzosuberone 3994⁴
Cinnamaldehyde p α-dimethyl 1230⁴
— α ethyl 4¹⁴ 4¹⁴
Ether 3 4-dihydro-2 naphthyl methyl -139
1 Indanone 3 3-dimethyl 4240²
2 Naphthaldehyde 3 6 7 8-tetrahydro- P 3016
3 3-Pentenone 1 phenyl 150⁷¹
- C₁₁H₁₇O₃ 1 3 Butanedione 1 p-tolyl 4881⁶
Butyric acid γ hydroxy-γ p-tolyl γ lactone 519
Cinnamaldehyde methoxy α methyl, 1230⁴ 424⁴
Cinnamic acid Et ester 82⁹ 1⁹ 1⁹⁸ 143⁹
— methyl Me ester 2143⁹
β Ientenoic acid γ phenyl, 1603⁹
Rutenol 5423⁹
- C₁₁H₁₇O₃ 2 Butenone, 4 (4 hydroxy m amyl) 42⁷⁷
Cinnamic acid hydroxy Et ester 2143⁹
— methyl Me ester 2143⁹
Compd, m 230² from acid formed by the oxidation of ergosterol 114⁴
Hemellitic acid 6 acetyl, 685¹
Isomyrstinic 42⁷⁷
Isosalic α methoxy 42⁷⁷
Mysticin 42⁷⁷
1 4 Ientanedione 2 hydroxy 1 phenyl- 5411⁴
Pyrocatechol 4 propenyl 2 acetate, 5409⁴
Toluic acid acetyl Me ester 685¹ 2714¹
- C₁₁H₁₇O₃ Acetophenone α hydroxy p-methoxy acetate 519⁹
Glutaric acid β phenyl 5161¹
- C₁₁H₁₇O₃ Acetic acid α α (benzaldehyde)bis- 4193⁹
- C₁₁H₁₇O₃ 1 4 Thiopyran 3 5 dicarboxylic acid 4 keto 6-dimercapto- di Et ester 902⁴
- C₁₁H₁₇O₃ Trimethyl ester m 123-4⁴ of acid from ergosterol 114⁴
- C₁₁H₁₇O₃ Rucic acid 1510¹ 3139¹
- C₁₁H₁₇O₃ 3 Salicylic acid 5-sulfo di Me ester acetate 1322⁴
- C₁₁H₁₇O₃ 2⁷, 5 5-Sproheptanetetra-carboxylic acid and P salt 4859⁴
- C₁₁H₁₇N₃O₅ 2 Benzimidazolecarboxylic acid 2 mercapto-, thioacetamide deriv, 703¹
- C₁₁H₁₇BrClNO₃ 2 Pyrrolicarboxylic acid 4 (β bromovinyl)-3, 5-dimethyl Et ester chloro deriv 10, 0²
- C₁₁H₁₇BrNO₃ Glyoxylic acid Et ester 2 bromo- p tolylhydrazine, 4244⁴
- C₁₁H₁₇BrN₃ Benzothiazole 3 bromo-5-methyl (propylamino, 4851²
- C₁₁H₁₇BrO Indan 1 bromo-2-ethoxy 1517⁴
- C₁₁H₁₇BrO Homocinnamic acid, 3-bromo-α-ethyl, 691¹
- C₁₁H₁₇Cl Naphthalene, (chloromethyl) 1, 2 3 4 tetrahydro 943⁹ P 3063⁹
- C₁₁H₁₇ClN₃O Butyraldehyde, β-chloro-α keto, (o and p) tolylhydrazine, 3311⁴
4 Pyrazolol, 5-methyl-1 phenyl, methochloride 3312⁴
- C₁₁H₁₇ClN₃S Benzothiazole, 5-chloro-1 isobutyl amino, 4881⁴
- C₁₁H₁₇ClO₄ Glycerol, 1 (5-chloro-2, 4-cresotate), 3636⁴
- C₁₁H₁₇Cl₃ m-Xylene, 4-(β, γ, γ trichloropropyl), 39⁹ 7⁹
- C₁₁H₁₇N₃O₃ 4 Pyrazolol, 5-methyl-1 phenyl, methiodide, 3342⁴
- C₁₁H₁₇KN₃O₃ Potassium salt of monophenyl hydrazine of compd from 2 methyl 2, 3 butadiene sulfone, 277³
- C₁₁H₁₇N 2 Naphthylamine, 3, 4-dihydro-N methyl and HCl, 2139⁴
Δ² Pyrroline, 2 benzyl, and chlorosulfate, 299⁷
— 1 methyl 2 phenyl and salts, 102⁹
α Tolunitrile, 2 4, 6-trimethyl, 5154⁴
- C₁₁H₁₇NO Cresotomitrile, isopropyl, 936³
Crotonamide V methyl, 489¹
Crotonophenone, β amino-β-methyl, 4881⁴
Hydrocarbostyryl, 3, 4-dimethyl, 703¹
1 Propanol 3 (indyl), 514²
- C₁₁H₁₇NOS Thiochroman, 4 acetamido-, 5425⁴
- C₁₁H₁₇NO₃ (See also Naphthol AS)
Butyric acid γ (amino-β-tolyl)-γ-hydroxy, γ lactone 519¹
Cinnamaldehyde, p methoxy-α methyl, oxime 1230⁴
Hydrohydrastinin, 4003³
- C₁₁H₁₇NO₃ Butyramide, α hydroxythio-, benzoate 2708¹
- C₁₁H₁₇NO₃S Glycolic acid, phenethylthio-carbamate, 4241⁴
Sulfimine, \ p tolylsulfonyl-S, S divinyl, 2114¹
- C₁₁H₁₇NO₃ p Acetoacetanide, 2126¹
Alanine, \ p tolyl, 2117¹
Benzoic acid, p acetamido, Et ester, 1811³
Δ² 2 Butenone, 4 (3 hydroxy p amyl), oxime 2132²
Succinic anhydride, α (3, 5-dimethyl 2 pyr- ryl) β-methyl, 364⁴
- C₁₁H₁₇NO₃S Thiochroman, 4 acetamido-, 1 rhione, 5425⁴
- C₁₁H₁₇NO₃ Compd, m 111⁴, from 2 methyl pyrrole and di Me acetylendicarboxylate, 3647⁴
Malonic acid, (α methylaminobenzyl), 516¹
P-peronylic acid, 2 (dimethylaminomethyl), and chlorosulfate, 1202¹
- C₁₁H₁₇NO₃ Lactic acid, β (carboxymethylamino) β phenyl and di-K salt 1820⁴
Xylene, 2, 4, 5-trimethoxy β-nitro-, 5405⁴
- C₁₁H₁₇NO₃ 2 Pyrrolicarboxylic acid, 4 (β, β-di carboxyethyl)-3, 5-dimethyl 301¹
- C₁₁H₁₇NO₃ Benzene-sulfonic acid, (α-acetyl acetamido)methoxy, P 3361⁴
- C₁₁H₁₇N₃ Pyrazole, 4 amino-3, 5-dimethyl 1 phenyl, and chloroplatinate, 1523⁴
- C₁₁H₁₇N₃O Acrolein α-ethyl (P), p nitrophenyl hydrazine 2411⁴
1, 3 Butanedione, 1 phenyl, semicarbazone, 3631⁴
5-Iiomochromanone, semicarbazone, 1245⁴
α Pentenaldehyde, p-nitrophenylhydrazine, 5140⁴
Senecioaldehyde, p nitrophenylhydrazine, 2414⁴
- C₁₁H₁₇N₃O₃ Propiophenone, 3 4 methylenedioxy, semicarbazone, 3321⁴
Toluic acid acetyl, semicarbazone 685¹
- C₁₁H₁₇N₃O Anthranic acid, N (V glycy glycy), 4258¹

- C₁₁H₁₃N₃O₄ Tyrosine, *N* glycidyl 2-nitro-, 2694¹
 C₁₁H₁₃N₃O₄ 1,4 3 Isothiadiazine, 2 methylamino
 5-*p* tolyl, and -HCl, 1532²
 C₁₁H₁₃N₃O₄ Methylamine, picrolonate, 70²
 C₁₁H₁₃ 1,6-Hefadiene, 4-ethynyl 4 vinyl (?),
 3309³
 Naphthalene, 1,2 3,4 tetrahydro-6 methyl,
 9137
 Ientene phenyl, 1798⁴
 C₁₁H₁₃AsNO₃ Malonamic acid, *p* arsonic, Et
 ester and its Na salt, 5407⁵
 C₁₁H₁₃AsN₃O₃ Δ-1 Pyrazoline *p*-benzenearsonic
 acid, 4 amino *o*-keto 2 3-dimethyl, *P*
 2813⁶
 C₁₁H₁₃BrNO Isovaleralamide, *p*-bromo-, 1811⁷
 C₁₁H₁₃BrNO₂ 2 Pyrrolicarboxylic acid 4 (β
 bromovinyl)-3,5-dimethyl, Et ester,
 1520⁸
 C₁₁H₁₃Br₂ Benzene, [γ bromo-α (β bromoethyl)
 propyl], 1832⁹
 C₁₁H₁₃Br₂O₂ Benzene, 1 (α β-dibromopropyl)
 2 4-dimethoxy, 5507¹⁰
 C₁₁H₁₃Br₂NO₂ 2 Pyrrolicarboxylic acid 3 5-*di*-
 methyl 4 (α,β β tribromopropyl) Et es-
 ter, 1520⁸
 C₁₁H₁₃Br₂N₃ S Benzothiazole, 3 bromo-5-methyl
 1 propylamino, hydrotribromide 4881¹¹
 C₁₁H₁₃ClNO₂ Acetamide α chloro-*N* (m
 methoxyphenethyl), 1530¹²
 C₁₁H₁₃ClNO₃ Sulfamide *S* (β-chloroethyl) *N*
p tolylsulfonate-*S* vinyl-, 2114¹³
 C₁₁H₁₃ClNO₂ Acetamide, α-chloro-*N* veratryl
 1225¹⁴
 Cryptopyrrolicarboxylic acid chloroacetyl
 3009¹⁵
 C₁₁H₁₃N₃ Indole, 3 (β aminoethyl) 1 methyl
 301¹⁶
 Indole, 3 (γ aminoethyl) and HCl 514¹⁷
 —, 3 (β methylaminoethyl) 3002¹⁸
 C₁₁H₁₃N₃O (See also Cytosine)
 Indole 3 (β aminoethyl)methoxy, 301¹⁹,
 709²⁰ 2145²¹
 Pyridine 3 (1 acetyl-2 pyrrolyl) and
 chloroplatinic, 300²²
 C₁₁H₁₃N₃O₂ Acetone, oxime methylcarbamate
 1506²³
 2-Butanone, oxime carbamate 1506²⁴
p Crotonamide β amino- 2126²⁵
 1 1 Cyclopentanediacetic de α cyano 3
 methyl 4234²⁶
 4 Pyrazolol 5-methyl 1 phenyl metho
 hydronide 3342²⁷
 C₁₁H₁₃N₃O₃ 3 Thiophenone 4 5 dihydro-4
 methyl *S* d oxide phenylhydrazone
 277²⁸
 C₁₁H₁₃N₃O₂ Carbamic acid *p* acetamide Et
 ester, 5404²⁹
 Glycine *N* (β phenylalanyl) 2627³⁰
 Hydrocinnamic acid β glycidylamino- 2694³¹
 — β (methylcarbamido) 516³²
 Isobutyric acid α-(β phenylcarbamido)
 4527³³
 C₁₁H₁₃N₃O₂ Acetamide, *o* tropopropyl 3689³⁴
 3 5-Acetoxyde, 4 methoxy 2 nitro 2424³⁵
 Bicyclic pyrazole deriv (?), m 76³⁶, 363³⁷
 Carbamic acid, 4 acetamido-2 hydroxy, Et
 ester, 1249³⁸
 —, *p* nitro- Bu ester, 2686³⁹ *sec*-Bu ester
 2686⁴⁰ isobutyl ester 2686⁴¹
 Tyrosine, *N* glycidyl 2094⁴²
 C₁₁H₁₃N₃O₃ Methanol[1,4]pyrrolidine-3-carboxylic
 acid, octahydro-8-keto-7 methyl 7 nitro-
 1831⁴³
- Urea, (2,4,5-trimethoxybenzoyl), 5154⁴⁴
 C₁₁H₁₃N₃O₃ Glycine, *N*, *V'* (hydroxytolylene)
 1,1, 491⁴⁵
 C₁₁H₁₃N₃S Benzothiazole, 5-methyl 1 propyl
 amino-, 4881⁴⁶
 C₁₁H₁₃N₃O₂ 2 m-Dithianone, 5-methyl, phenyl-
 hydrazone, 2607⁴⁷
 C₁₁H₁₃N₃O₂ Carbamic acid, acetyl, Et ester,
p nitrophenylhydrazone, 3651⁴⁸
 Theobromine, 1 (β hydroxyethyl), acetate
 1031⁴⁹
 C₁₁H₁₃N₃O₂ 2,5-Pyrroledicarboxylic acid, 3-
 formyl 4 methyl, di Me ester, semicar-
 bazonic, 902⁵⁰
 C₁₁H₁₃N₃O₂ Piperidine, picrate, 3545⁵¹
 C₁₁H₁₃N₃O₂ Betaine, picrate, 70⁵²
 C₁₁H₁₃N₃O₂ Betaine, styphate, 70⁵³
 C₁₁H₁₃N₃O₂ 1,2 Propanedione, 1 (2 4-dihydroxy
 phenyl), dimericbazonic, 1510⁵⁴
 C₁₁H₁₃O Benzyl alcohol, α allyl *p*-methyl, 3975⁵⁵
 1 Butanol, 2 butanol, 2705⁵⁶
 Lither, ethyl *γ*-phenylallyl, 2132⁵⁷
 —, methyl 1,2 3,4 tetrahydro-2 naphthyl,
 2130⁵⁸
 Hydrocinnamaldehyde, α ethyl, 4247⁵⁹
 2 Pentanone, *p*-phenyl, 4550⁶⁰
 Δ⁴-1 Propenol, 2 methyl 3 *p* tolyl, 2705⁶¹
 Propiophenone, *p*-ethyl, 4540⁶²
 Valerophenone, 6394⁶³
 C₁₁H₁₃O₂ Acetophenone, 2 hydroxy 5-propyl
 930⁶⁴
 Benzene, 1 allyl 2 4-dimethoxy, 5506⁶⁵
 — 2 4 dimethoxy 1 propenyl, 5506⁶⁶
 — 4 isobutyl 1,2 methylenedioxy, 4247⁶⁷
 Benzoic acid Bu ester 1708⁶⁸
 2 Butanone, 4 *p* anisyl, 691⁶⁹
 Butyric acid, *o*-tolyl ester, 929⁷⁰
 α *γ* *γ*-Decalacetone acid, Me ester
 884⁷¹
 Hydrocinnamaldehyde, α methoxy α
 methyl 4247⁷²
 Hydrocinnamic acid *o*(and *p*) ethyl, 936⁷³
 Indan 5 6 dimethoxy, 694⁷⁴
 Δ³ 3 Pentenone 1 (2 furyl) 4 4 di
 methyl, 1245⁷⁵
 Phenol 2 ethoxy-4(and 5) propenyl, 5156⁷⁶
 Propionic acid, xylol ester, 929⁷⁷
 Propiophenone 4 hydroxy 3 5 dimethyl,
 929⁷⁸
 Valeric acid, 4 phenyl 4003⁷⁹
 Valerophenone, *p* hydroxy 1228⁸⁰
 Veratrole, 4 allyl 1945⁸¹ 4277⁸²
 —, 4 propenyl, 2984⁸³ 4277⁸⁴
 C₁₁H₁₃O₂ Benzoic acid *p* ethoxy Et ester,
 3311⁸⁵
 Benzyl alcohol, *p* (methoxymethyl) ac-
 etate 4540⁸⁶
p Cresol 2 ethoxy, acetate 3977⁸⁷
 4 3 Cresotic acid 6-isopropyl 935⁸⁸
 Dehydroangustone 2121⁸⁹
 Isochavibetol, methoxy 4866⁹⁰
 Isoeugenol, methoxy 4866⁹¹
 Isovalerophenone, 2 4 dihydroxy 4865⁹²
 Phenol 2 (methoxymethoxy)propenyl
 5409⁹³
 1 Propanol 2 methyl 3 (3,4 methylenedioxy
 phenyl), 4247⁹⁴
m-Toluc acid, 4-ethoxy, Me ester, 3311⁹⁵
 C₁₁H₁₃O₂ Acetophenone, 3 4,5-trimethoxy
 3324⁹⁶
 Benzaldehyde, ethoxydimethoxy, 707⁹⁷,
 708⁹⁸
 Divaricatic acid, 5413⁹⁹

- Propiophenone hydroxydimethoxy 42a0⁴
 Veratrine acid 6 ethyl 12a2³
 3,4-Xylyl acid 2,6-dimethoxy 288⁴
 C₁₁H₁₄O₄S *p*-Toluenesulfonic acid tetrahydro-
 furylester 1245⁴
 C₁₁H₁₄O₄ Asaronic acid Me ester 5154⁷
 Benzoic acid ethoxydimethoxy 707⁷ *08
 — 3 and 4) ethoxymethoxy-4 (and 3)
 methoxy 5156⁷ *1
 1,2,3-Cyclohexanetricarboxylic acid 2,4
 dimethyl anhydride 3657⁹
 Glycerol 1-cresotate 3638⁴
o-Toluic acid trimethoxy 10a⁴ 4668⁹
 C₁₁H₁₄O₄ Δ^{1,4}-Bicyclo[2.1.0]pentene-2,3-dicar-
 boxylic acid 1,4-dihydroxy di Et ester
 3631¹
 Δ^{1,4} 1,2-Cyclopentadienedicarboxylic acid
 3,5-dihydroxy di Et ester 3631¹
 C₁₁H₁₄N₂O₄ Arsanic acid N (dimethyl
 carbamylacetyl) and Na salt 5407⁷
 Arsanic acid N ethylcarbamylacetyl
 and Na salt 5407⁷
 — N (β-methylcarbamylpropionyl) and
 Na salt 2⁷05
 C₁₁H₁₄Br = Xylene 4 bromopropyl 693⁴
 C₁₁H₁₄BrN₂O₄ See *Peracox*
 C₁₁H₁₄BrO₄ Ribose 1 bromotriacetyl 4229⁴
 C₁₁H₁₄BrN₂S Benzothiazole 5-methyl 1 pro-
 pylamino hydrotetra bromide 4881
 C₁₁H₁₄ClN₂S Urea α-*p*-chlorophenyl β iso-
 butylthio- 4881¹
 C₁₁H₁₄ClO Δ^{1,4} Indanacetyl chloride 3a 4 5 6
 7 7a hexahydro- 3335⁹
 C₁₁H₁₄ClO₃ Toluene sulfonyl chloride *sec*
 butyl 2a3⁴
 C₁₁H₁₄ClO₄ Toluene α-chloro-4-ethoxy 3,5-di-
 methoxy P 4284⁴
 C₁₁H₁₄ClO₄ Xylose β acetochloro 920⁴
 C₁₁H₁₄HgI₂O₃ Ethylmethylphenacylsulfonium
 mercuritriiodide 690⁴
 C₁₁H₁₄I₂O₃ Ethylmethylphenacylsulfonium io-
 dide 690
 C₁₁H₁₄N₂I Camphenenitrile 1822⁴
 2 Indoleacetamide hexahydro- 3333⁴
 3334⁴
 Piperidine 2 phenyl 3999⁴
 Pyrrolidine 1 benzyl 951
 — 2 methyl-4 phenyl 399⁴
 — 1 *p*-tolyl and chloroplatinate 9a1⁷
 Quinoline 1,2,3,4-tetrahydromethyl and
 HCl 705¹ *1
 C₁₁H₁₄NO 2-Butanone 3 methyl 1 phenyl
 oxime 5141
 Cyclohexylamine N 2 fural 1510⁴
 2 Indanamine 1 methoxy N methyl and
 HCl 2139
 1 Naphthol 1,2,3,4-tetrahydro-2 methyl
 amino, and HCl 2139⁴
 Pivalophenone oxime 5141⁷
 C₁₁H₁₄NO₂ Acetamide, *p*-isopropoxy P 2245⁹
 Acetamide *m*-propoxy 3669⁹
 Acetoxydimethoxy 930⁴ 2424⁴
 Anhydroangustione oxime 2121¹
 Benzoic acid *p*-(β-aminoethyl) Et ester,
 2194¹
 2 Butanone 4-*p*-amyl oxime, 691⁴
 Δ^{1,4} Cyclopentanecarboxylic acid α-cyano-3-
 methyl Et ester 4234⁷, 5403⁷
 Glycine γ phenylpropyl ester, 1814⁴
 Propiophenone β-(methoxymethylamino),
 and HCl 506⁴
 Thymoquinone, O-methyl oxime, 933⁴ *7
 C₁₁H₁₄NO₂S Carbamic acid, (3,4-dimethoxy-
 phenethyl)dithio-, NH₄ salt, 4241¹
 C₁₁H₁₄NO₂ (See also *Lactophenazine*)
 Anisole 2 isopropyl 5-methyl-4-nitro-, 933⁷
 Carbamic acid, (β-methoxyphenethyl), Me
 ester 5403⁷
 Homomopronyl alcohol, α methyl β-methyl-
 amino-, 1814¹
 C₁₁H₁₄NO₂ Benzene, 2-ethoxy 1 nitro-4-
 propoxy, 5669⁴
 Glutamic acid cyanomethyl, di Et ester,
 2695⁴ * 2696⁴
 2,5-Pyrroledipropionic acid, 1 methyl,
 3647⁴
 2 Pyrroledisuccinic acid, 3-methyl, di Me
 ester, 3647⁴
o-Tolamide 2,4,5-trimethoxy, 4668⁹
 C₁₁H₁₄NO₂ *o*-Toluic acid, α-amino-3,4,5-tri-
 methoxy, HCl, 1226⁴
 C₁₁H₁₄NO₂ 3 Pyrrolidinemethylmalonic acid,
 (carboxymethyl)keto-4 methyl, 4263¹
 C₁₁H₁₄N₂ Isocyanic acid, Ph ester, diethylhydra-
 zone 2126¹
 C₁₁H₁₄N₂O₃ Butyrophenone α (or β) thiosemi-
 carbazono-, 2132⁷
 C₁₁H₁₄N₂O₃ Butyrophenone, hydroxy, semicar-
 bazono-, 1226⁴
 Carbamic acid, acetyl, Et ester, phenyl
 hydrazine 3651¹
 3 Pentanone, *p*-nitrophenylhydrazine 5406⁹
 2 Propanone, 1 *p*-amyl-, semicarbazone,
 691⁴
 C₁₁H₁₄N₂O₃ Phenol 2,4-dinitro-, compd with
 piperidine, 2726⁹
 C₁₁H₁₄N₂S Acetone, thio-4 *p*-tolylsemicarbazone,
 122a⁴
 C₁₁H₁₄N₂O₃ Burea, 1 allyl 6-amino-2-thio-,
 3634¹
 C₁₁H₁₄PS₃ 3-Thiaphosphoranone, 2,2-dihydro-
 2,2-dimethyl-3-thia 1 (2,5-xylyl), 2⁷02⁴
 C₁₁H₁₄ Benzene, amyl, 3469⁴, 5323⁴
 Benzene, 1-ethyl-4 propyl, 4a40⁴
 —, pentamethyl, 5890¹
 Toluene *m*(and *p*) *sec* butyl, 283⁴
 — *m*(and *p*) *tert* butyl 283⁴
 C₁₁H₁₄BrN 1-Camphenenitrile, bromohydrate,
 1823¹
 C₁₁H₁₄BrNO₃ Benzenesulfonamide, N amyl *p*-
 bromo-, 2704⁴
 C₁₁H₁₄BrO₂ 2 Indanacetic acid, dibromohexa-
 hydro-, 3333⁴
 C₁₁H₁₄ClNO₄ 4-Isoquinolol, 1,2,3,4 tetra-
 hydro-5-methoxy, methochloride, 516¹
 C₁₁H₁₄ClO₄ 1,1-Cyclobutanedicarbonyl chloride,
 3-amoxy, 2979⁴
 C₁₁H₁₄INO₄ 4-Isoquinolol, 1,2,3,4 tetra-
 hydro-5-methoxy, methochloride 516¹
 C₁₁H₁₄N₂ Pyridine, 3-(1-ethyl 2 pyrrolidyl), and
 salts, 300⁴
 C₁₁H₁₄N₂O Acetamide, N (β-dimethylamino-
 benzyl), 4243⁷
 2(1) Pyridone 1 methyl 3 (1 methyl-
 2 pyrrolidyl), 2149⁴
 C₁₁H₁₄N₂O₂ (See also *Palocarpine*)
 Aniline, N, N-dimethyl-4 nitroso-3 propoxy,
 and HCl, 5669⁴
 Cresol, α-dimethylamino- methylurethan,
 HCl 462a⁴
 Phenol, *p* [(α ethylpropyl)nitrosoamino],
 2954⁴
 C₁₁H₁₄N₂O₂ (See also *Sandopial*)
 2 Pyrrolicarboxylic acid, 4-acetamido-3,5-
 dimethyl, Et ester, 961⁴

- Urea, (3,4-dimethoxyphenethyl), 5405¹
 C₁₁H₁₇N₃O₂ 3 H₂dantoinic acid, cyclohexyl ester, 4228¹
 C₁₁H₁₇N₃O Urea, α -propylthio- β p tolyl 4881¹
 C₁₁H₁₇N₃O Acetone, 4-o-toluenesemcarbazone 3634¹
 C₁₁H₁₇N₃O S Butyropheneone α (or β) thiosemcarbazido- oxime 2132¹
 C₁₁H₁₇N₃O Amylamine, picrate 70¹
 Diethylamine, N methyl picrate 5396¹
 Isoamylamine, picrate 70¹ 2626¹
 C₁₁H₁₇N₃O Amylamine styphnate 70¹
 Isoamylamine styphnate 70¹
 C₁₁H₁₇O Anisole, o-isobutyl 4247¹
 Benzyl alcohol α , α -diethyl 3643¹
 Ether, benzyl *tert* butyl 931¹
 —, ethyl β methylphenethyl 5154¹
 —, isoamyl phenyl, 1797¹ 2706¹
 1 Pentanol 5-phenyl, 1813¹
 Phenol amyl 1229¹
 —, 2-ethyl-4 propyl 930¹
 — pentamethyl 4533¹
 Phenol ether b₄ 110-2° 3438¹
 1 Propanol 3 (2,4-xylyl) 693¹
 2 6-Xylenol 4 propyl 929¹
 C₁₁H₁₇O S Camphocarboxylic acid d thio salts P 1536¹ 3326¹
 C₁₁H₁₇O Benzaldehyde di Et acetal 1798 4523¹
 3 Bornylacetic acid 5156¹
 Camphenecarboxylic acid 1822¹ 5156
 Camphor, 3 (hydroxymethylene) 692¹ 1234¹
 Cyclohexanol 1-ethoxy-4 methyl acetate 4857¹
 2 Heptanone 4 (2 furyl), 5424¹
 2 Hexanone, 4 (2 furyl) 5-methyl 5424¹
 Δ^3 Indanacetic acid 3a 4 5 6 7 7a hexahydro- 3333¹ 3334¹
 2 Indenacetic acid 3a 4 5 6 7 7a hexahydro 3334¹ and HBr 3333¹
 7 Norcamphenecarboxylic acid 2 hydroxy 2,3 3-trimethyl lactone 5156¹
 1 5-Pentanol, 3 phenyl 1832¹
 Phenol α amoxy, 5408¹
 —, α (2-methylbutoxy), 5408¹
 1 Propanol 3 o-amyl 2 methyl, 4247¹
 Resorcinol, 4-isoamyl 4865¹
 5 6-Spirodecane 6 8-dione 5-methyl 280¹
 C₁₁H₁₇O Angustione 2121¹
 Benzene α -ethyl 1,2,3 trimethoxy 2707¹
 Camphocarboxylic acid 6153¹ Ag salt 4760¹ 5817¹ Na salt 3079¹
 C₁₁H₁₇O S Toluenesulfonic acid, *tert* butyl, B₂ salt 283¹
 C₁₁H₁₇O Benzyl alcohol, 4-ethoxy 3,5-dimethoxy, P 4284¹
 3 Camphenecarboxylic acid 2 3 epoxy 2 hydroxy, 4870¹
 Camphocarboxylic acid 3 hydroxy 4870¹
 Glutamic acid, β (β , β -dihydroxy- α -di-methylpropyl) 3 methyl, 6153¹ cyclohexane, 3982¹
 C₁₁H₁₇O Acetonequinone, methyl, 3349¹
 Cyclohexanone, 2 hydroxy 4 5 (isopropylidenedioxy) (7), acetate, 3349¹
 C₁₁H₁₇O 1,2,3-Butanetricarboxylic acid, 1 hydroxy γ -lactone, di Et ester, 1833¹
 1,2,3 Cyclohexanetricarboxylic acid, 2,4 dimethyl, 3507¹
 Pseudoglucal, diacetyl, α methyl lactohide, 2977¹
- C₁₁H₁₇O Anhydromethylglucoside diacetate, 886¹
 C₁₁H₁₇O Lyxonic acid, triacetate λ salt 279¹
 C₁₁H₁₇AsO Benzenearsonic acid o isoamoxy 4863¹
 C₁₁H₁₇BrO 3 Camphenecarboxylic acid 2 bromo- 5156¹
 Camphenecarboxylic acid bromohydrate 1822¹ 1823¹
 7 Norcamphenecarboxylic acid 2 bromo- 2 3 3 trimethyl 5156¹
 C₁₁H₁₇N Aniline N isoamyl 1797¹ HBr 4241¹
 Butylamine γ methyl δ phenyl and HCl 2703¹
 α Camphenolene 1 methyl 3982¹
 Mesidine N N dimethyl and HCl 4733¹
 Phenethylamine, β -isopropyl and HCl 2134¹
 C₁₁H₁₇NO Aniline N N dimethyl m propoxy, 5669¹
 Aniline β isoamoxy and salts 2706¹
 Benzyl alcohol α (α ethylaminoethyl) P 4556¹
 1 Camphenecarboxamide 1822¹
 Cyclohexylamine N (2 furylmethyl) 1810¹
 2 4 Xyldine, α -methoxy γ γ dimethyl, and chloroplatinate 1814¹
 C₁₁H₁₇NO Benzyl alcohol, α (β methoxy- α methylaminoethyl) and HCl 2133¹
 Cyclopentanecarboxylic acid α -cyano-3 methyl Et ester, 5403¹
 Guaiacol (α dimethylaminoethyl) 4241¹
 Phenethylamine 4-ethoxy 3 methoxy and HCl 2134¹
 1 Propanol 3 methoxy 2 methylamino 3 phenyl, 2133¹
 2 Pyrrolecarboxylic acid, 5 methyl 3 propyl Et ester 3010¹
 C₁₁H₁₇NO S Benzenesulfonamide γ amyl 2704¹
 p-Toluenesulfonamide N butyl 2704¹
 C₁₁H₁₇NO (See also Mescaline)
 Angustione amino- 2121¹
 Bases m 143-6° and 160-7° from acetoxy bromide of isochavibetol acetate, 4538¹
 Phenethylamine trimethoxy 2134¹ 5404¹ and salts 5403¹ salts 5406¹
 C₁₁H₁₇NO S Sulfilumene S S bis(β hydroxy ethyl) N p tolylsulfonyl 2114¹
 C₁₁H₁₇NO Cyclo urethane, m 145°, from methyl acetonequide 3349¹
 C₁₁H₁₇NiNaO (See also Sodium amylal)
 Sodium pentobarbital 5932¹
 C₁₁H₁₇N₂ Guandine α α diethyl β (or γ) phenyl P 1263¹
 C₁₁H₁₇N₂O Cyclopentanone 2 cyclopentylidene-semcarbazone, 2420¹
 Methanol(4 7)inden-5(4)-one, 2,3,3a,6,7,7a hexahydro- semcarbazone, 1807¹
 Safrancamphor semcarbazone, 110¹
 Semcarbazide, 1,1-diethyl 4 phenyl, 2126¹
 C₁₁H₁₇NiO₂ Guandine, α (α methylbenzyl), acetate, 4534¹
 2 Hexanone 4 (2 furyl), semcarbazone, 5424¹
 C₁₁H₁₇N₂O α -Heptenone acid β (α -hydroxyisopropyl) α -keto γ lactone semcarbazone, 1512¹
 7 Norcamphenecarboxylic acid, 2-keto-1,7 dimethyl semcarbazone, 1823¹
 C₁₁H₁₇N₂ 4661¹

- Δ¹ Bicyclo[3.1.1]heptene 3 4 7 7 tetra methyl 363⁷
 Norpinane 4 7 7 trimethyl 3 methylene-363¹
 C H₁₁AsNO α-Arsanilic acid γ amyl 4863¹
 γ Arsanilic acid γ isoamyl 4863¹
 C H₁₁BrNO₃ Proline γ α bromocaproyl 7¹
 C H₁₁HgLN Diethylmethylphenylammonium mercuritriiodide 4879¹
 C H₁₁HgLP Trimethyl 2 5-xylylphosphonium iodide HgI₃ deriv 2702¹
 C H₁₁JNO β Hydroxyphenethyltrimethylammonium iodide 1241
 γ Hydroxypropyldimethylphenylammonium iodide 1814
 C H₁₁JP Trimethyl 2 5-xylylphosphonium iodide 2702¹
 C H₁₁JLP Trimethyl 2 5-xylylphosphonium triiodide 2702¹
 C₁₁H₁₁N₂ Pyridine 2 β diethylaminoethyl 42 04
 C₁₁H₁₁N₂O Ephedrine p amino- γ methyl HC1, P 3363¹
 Phenol p (α β bis(methylamino)propyl) and H₂SO₄ 4538¹
 C H₁₁N₂O₂ See also Amytal Nembutal
 Barbituric acid 5-amyl 5-ethyl and salts P 5249¹
 Pyrimidine 5-*sec* butyl 2 4 6-trimethoxy 4229¹
 Xylylenediamine trimethoxy 1226¹
 C₁₁H₁₁N₂O₃ 4-Pyrimidinealdehyde 2 ethyl mercaptol 1 6-dihydro 6 keto- di Et acetal 3901¹
 C₁₁H₁₁N₂O₃ Malonic acid allylcarbamido- di Et ester 1493¹
 C₁₁H₁₁N₂O₃ Carbanic acid γ , γ glutarylbis di Et ester 3984¹
 C₁₁H₁₁N₂O₃ Histidine γ valyl 5180¹
 C₁₁H₁₁N₂O₃ 5, 6, 7 2 3-Benzotriazole 1 methoxy 6-nitro- compd with Me₂SO, 4266¹
 C₁₁H₁₁O Camphor 4 methyl, 3982¹
 β -Homocamphor 2990¹
 C₁₁H₁₁O₂ α Campholenic acid 1 methyl 3982¹
 Δ^1 -Cyclohexeneacetic acid 4 methyl Et ester, 280¹
 Epicamphor 3 hydroxy 3-methyl 4871¹
 2 Iodanacetic acid hexahydro- 3333¹
 Me ester bis 94 5° of acid from piperitone 939¹
 1 Norcamphanecarboxylic acid 2 3 3-tri methyl 1822¹
 C H₁₁O₂ 3-Camphanecarboxylic acid, hydroxy 5155¹ 5156¹
 Camphanecarboxylic acid hydrate 1823¹
 Cyclohexanepropionic acid 3 keto-1 methyl Me ester 2987¹
 Cyclopentanecarboxylic acid 3- α -dimethyl acetoxy 1822¹
 2 Iodanacetic acid, hexahydro-2 hydroxy 3333¹ 3334¹
 7 Norcamphanecarboxylic acid 2 hydroxy-2, 3, 3 trimethyl, 5156¹
 Orthoacetic acid, phenyl, Et di Me ester, 2134¹
 C H₁₁O₂ Caryophyllenic acid, di-Me ester 2988¹
 1 1 Cycloheptenediacetic acid, 5664¹
 Malonic acid, butylenedio-, di Et ester, 2116¹
 C₁₁H₁₁O₂ Camphorsulfonic acid, Me ester, 3322¹
 C₁₁H₁₁O₂ 1,1 Cyclobutanedicarboxylic acid, 3 amoxy, and Cu salt, 2970¹
 Malonic acid, acetoxydimethyl, di Et ester, 3631¹
 —, (α ethoxyethylidene), di Et ester, 2976¹
 1 4 Pyran 4 4-dicarboxylic acid, tetrahydro-, di Et ester, 631¹
 C₁₁H₁₁O₂ 1,2,5-Pentanetriol, triacetate, 4526¹
 C₁₁H₁₁O₂ d Glucose, 3 acetylisopropylidene-, 4770¹
 C₁₁H₁₁BrN₂O₂ Leucine γ (N bromoacetyl alanyl), 2693¹
 C H₁₁ClO₂ Malonic acid, (γ chloro- β methoxy propyl) di Et ester, 2979¹
 C₁₁H₁₁N Cyclohexylamine, γ (β methyl Δ^1 -butenylidene), 1810¹
 β -Pentenitrile, α , α β triethyl, 2116¹
 Pyrrole 2 methyl 3 4 dipropyl, 3010¹
 C₁₁H₁₁NO α Campholenamide, 1 methyl, 3983¹
 Camphor 4 methyl, oxime, 3982¹
 β Homocamphor, oxime, 2990¹
 1 Norcamphanecarboxamide 2 3, 3 - tri methyl, 1822¹
 1 Pyrrolepropanol, α , α -diethyl, 1826¹
 2(3) Pyrrolone, 5-hexyl 1 methyl, 1484¹
 C₁₁H₁₁NO₂ Malonic acid, isobutyrylamino-, di Et ester, 3398¹
 C₁₁H₁₁N₂O Cyclopentanone, 2-cyclopentyl, semicarbazone, 2421¹
 2 Iodazolecarboxamide, 3, 3a 4, 5, 6, 7 hexahydro-2, 3, 6-trimethyl, 693¹
 2 Propanone, 1 (3 and 4) methylcyclohexylidene, semicarbazone, 250¹
 C₁₁H₁₁N₂O₂ Cyclohexanepropionic acid, 3 keto-1 methyl semicarbazone 2987¹
 C₁₁H₁₁N₂O₂ 2 Hexanone, 5, 6-dihydroxy, semicarbazone, diacetate 488¹
 C₁₁H₁₁N₂O₂ Glycine, N [γ (V-carboxyglycyl) glycol], di Et ester, 2974¹
 C₁₁H₁₁ Cyclohexane, cyclopentyl, 2980¹
 5-Hendecene, 2112¹
 Naphthene, b 200-2°, from brown-coal tar oil 3463¹
 C₁₁H₁₁BrNO₂ Isovaleric acid, β (α -bromoisocaproylamino), 78¹
 Valine γ (α -bromoisocaproyl), 493¹
 C₁₁H₁₁Cl₂HgN₂O₂ Malonamide, α α -bis(chloromercuro) γ , N diisobutyl, 1219¹
 Malonamide, γ , γ -diisobutyl- α , α -bis(chloromercuro), 1219¹
 C₁₁H₁₁NO₂ Cyclohexanecarbanic acid, 2 iodo-, Bu ester, 3817¹
 C₁₁H₁₁N₂ Pyrazine tetrahydrohexamethyl methylene-, 2728¹ and chloroplatinate, 516¹
 C₁₁H₁₁N₂O₂ 1,1 Cyclobutanedicarboxamide, 3-amoxy 2979¹
 Leucine, N propyl, 2974¹
 Proline, 1 leucyl, 77¹
 —, 1 norleucyl, 77¹
 2 Pyrrolidinedicarboxamide, 1- α hydroxy caproyl, 77¹
 —, 1 (α hydroxyisocaproyl) 77¹
 C H₁₁O₂ 2 Camphanecarbol, 507¹
 Δ^1 -Cyclohexenecarbol, α -ethyl- α , 4-di methyl, 4837¹
 Pinocarveol, methyl, 3637¹
 C₁₁H₁₁O₂ Cyclohexanecarbol, α 4 dimethyl, acetate, 4837¹
 Hydrosorbic acid, α ethyl β methyl, Et ester, 4524¹
 Ludecaaphthene acid, 3630¹
 Undecylenic acid, 489¹, P 2735¹, 3314¹

- C₁₂H₁₈O₂ Levulinic acid, hexyl ester, 5308²
Pyruvic acid, β -octyl ester, 5397²
Valeric acid α acetyl α β -d methyl, Et ester, 3312²
- C₁₁H₂₀O₂ Glutaric acid, β , β dipropyl 3664³
Pimelic acid di Et ester, 2110⁴
 β β - Spiro m - dioxane 2,2,2',2' tetra methyl, 1801⁵
- C₁₁H₂₀O₂ Malonic acid, (β ethoxyethyl), di Et ester, 3955⁶
- C₁₁H₂₀O₂ Glucoside, ethyldenemethyl di Me ether, 5401⁷
Mesoxalic acid, di Et ester, di Et acetal 3626⁸
- C₁₀H₁₈O₂ Mucic acid, 2,3,4 trimethyl di Me ester, 2118⁹
- C₁₀H₁₈O₂ Cyclohexanecarboxylic acid dithio Ba ester, 500⁹
- C₁₀H₁₈BrN Lupinane, ω bromo- methyl of de 3007¹
- C₁₀H₁₈BrO₂ Undecylic acid α bromo- 469²
- C₁₀H₁₇Cl Undecanaphthyl chloride 3630²
- C₁₀H₁₇ClO₂ Undecylic acid α chloro α hydroxy 3314²
- C₁₀H₁₇N₂ 2,5 Dihydro-1,2,3,5,5,6 hepta methyl 1 pyrazinium iodide 516³
- C₁₀H₁₇NO Formamide N 3 β methyl, 1233
1 Propanol 3 (cyclohexylamino) 2,2 di methyl, 1810⁴
Valeromitrile, α α β triethyl α hydroxy 2116⁵
- C₁₀H₁₇NO₂ Malonic acid, aminoisobutyl di Et ester, 1493⁶
Pelargonic acid, β (carbomethoxyamino) 490⁷
- C₁₀H₁₇N₂O Cyclohexanone, 2 butyl semicarbazone, 1508⁸
- C₁₀H₁₇N₂O₂ Levulinic acid, isomyl ester semi carbazone 496⁹
- C₁₀H₁₇N₂O₂ Undecanaphthene 3633¹ 4751¹
Undecanaphthene 3630²
- C₁₀H₁₇N₂Disoamylgold cyanide, 4220³
- C₁₀H₁₇N₂ 2,5-Dihydro-1,2,3,5,5,6-hepta methyl 1 pyrazinium hydroxide 2725⁴
- C₁₀H₁₇N₂O₂ Isovaleric acid, β (leucylamino) 76⁵
- C₁₀H₁₇O Cyclopentanol, 2,5-dipropyl 4234⁶
Undecanaphthanol 3630⁷
- C₁₀H₁₇O₂ Caprylic acid, β methyl, Et ester 3627⁸
Pelargonic acid Et ester 5323⁹
Undecylic acid K salt, 1721¹⁰
- C₁₀H₁₇O₂S Undecylic acid, α mercapto- 3314¹
- C₁₀H₁₇O₂ Glucoside, tetramethyl- γ methyl, 5666²
Mannopyranoside tetramethyl β methyl, 1223³
"Tetramethoxymethylketoside from α methoxyhydracrylaldehyde and CO (CH₃OH)₂, 1223⁴
- C₁₀H₁₇O₂S Undecylic acid, hydroxy-sulfo- 3314⁵
- C₁₀H₁₇N Cyclohexylamine, N isomyl, and -HCl, 1809⁶
Cyclohexylamine, N (β methylbutyl), and HCl, 1810⁷
Pyrrolidine, 1 methyl 2,2 dipropyl, 102⁸
- C₁₀H₁₇NO 1 Propanol, 3 cyclohexylamino-2,2 dimethyl, and -HCl, 1810⁹
- C₁₀H₁₇NO₂ Leucine, isomyl ester, -HCl, 2742¹⁰
Pelargonic acid β amino-, Et ester -HCl, 490¹¹
- C₁₀H₁₇N₂O Semicarbazide 1 (2 butylcyclohexyl) 1508¹²
- C₁₀H₁₇N₂O₂ C_{10} roaldehyde α butyl- α hydroxy semicarbazone 2114¹³
- C₁₀H₁₇N₂O₂ 2,4-dimethyl 513¹⁴
- C₁₀H₁₇INO 1,4 Methoxybutyl 1 methylpiperidine iodide 1814¹⁵
- C₁₀H₁₇N₂ Base from reduction of isopropioncyanamide and chloroplatinate 3005¹⁶
- C₁₀H₁₇N₂O₂ γ γ Diethoxypropyldimethylhydrazine acid oxalate 4238¹⁷
- C₁₀H₁₇O₂ Butane 1 amoxy 4-ethoxy 4221¹⁸
- C₁₀H₁₇O₂ Glucose 2 methyl di Et mercaptal 1801¹⁹
- C₁₀H₁₇N₂O Semicarbazide, 1,2,3,4 ethyl propyl 2416²⁰
- C₁₀H₁₇INO (4 ethyl 4 hydroxyhexyl)trimethyl ammonium iodide 4524²¹
- C₁₀H₁₇Si Silicane triethylsiloamyl 4576²²
- C₁₀H₁₇FeN₂ Barium ferrocyanide 634²³ 5335²⁴
- C₁₀H₁₇FeN₂ Calcium ferrocyanide P 385²⁵
- C₁₀H₁₇FeN₂K Potassium cupriferricyanide 245²⁶
- C₁₀H₁₇N₂Zn Sodium zinc ferrocyanide, 4480²⁷
- C₁₀H₁₇FeO₂ See iron carbonyls
- C₁₀H₁₇FeN₂NaZn Sodium zinc ferrocyanide, 4480²⁸
- C₁₀H₁₇N₂O₂ Pyrido[2,3- β]quinoline 5(10)-one, tribromodinitro- 3651²⁹
- C₁₀H₁₇BrN₂ Naphthalic anhydride, 3 bromo-4 nitro- 1518³⁰
- C₁₀H₁₇BrN₂O₂ Pyrido[2,3- β]quinoline 5(10)-one dibromodinitro-, 3651³¹
- C₁₀H₁₇CdN₂O₂ Cadmium picrate 2626³²
- C₁₀H₁₇Cl Biphenyl hexachloro, 940³³
- C₁₀H₁₇BrN₂O₂ Pyrido[2,3- β]quinoline 5(10)-one, bromodinitro 3651³⁴
- C₁₀H₁₇BrO₂ Acenaphthenequinone, 3 bromo 1518³⁵ 2715³⁶
- C₁₀H₁₇BrO₂S Naphthalic anhydride, bromosulfo-, and Na salt 1518³⁷
- C₁₀H₁₇BrO₂ 1,4 Naphthoquinone, 2,6,8-tri bromo 5 hydroxy, acetate, 512³⁸
- C₁₀H₁₇BrNO₂ Acetamide N (tetrabromodihydroketonaphthyl), 1516³⁹
- C₁₀H₁₇NO₂ Naphthalic anhydride 2 nitro-, 3088⁴⁰
- C₁₀H₁₇AsCl₂N Phenarsone, 1,2,3,4 tetrachloro-1,6-dihydro-, 2147⁴¹
- C₁₀H₁₇BrClN₂O₂ Phenol 3 chloro 4 nitroso-, compd with 3 bromopene acid, 5669⁴²
- C₁₀H₁₇BrNO₂ Naphthalic acid, 4 bromo-5 nitro-, 1518⁴³
- C₁₀H₁₇BrO₂ Dibenzofuran dibromo-, 2705⁴⁴
- C₁₀H₁₇BrO₂S Phenothioxan, 3,6 dibromo-, 3338⁴⁵
- C₁₀H₁₇BrO₂ 1,4 Naphthoquinone, 2,6-dibromo-5-hydroxy, acetate, 512⁴⁶
- C₁₀H₁₇BrN₂O₂ Diphenylamine, 2,2',4 tribromo-4,6-dinitro-, 1503⁴⁷
- C₁₀H₁₇BrO₂ 2 Naphthol, 1,3,6,7 tetrabromo, acetate, 946⁴⁸
- C₁₀H₁₇BrO₂ 2(1) Naphthalenone, 1,1,2,3,5,8-hexabromo-3,4 dihydro-4 hydroxy, acetate 946⁴⁹
- C₁₀H₁₇ClFN₂O₂ Phenol, 3 chloro-4 nitroso-, compd with 3 fluoropieric acid, 5669⁵⁰
- C₁₀H₁₇ClN₂O₂ Phenol, 3 chloro-4 nitroso-, compd with 3 iodopieric acid, 5669⁵¹
- C₁₀H₁₇ClNO₂ 2,3 β Naphthazolesone, 9 chloro-, P 1845⁵²
- C₁₀H₁₇ClNO₂ Dibenzofuran, 6 chloro 2 nitro-, 2705⁵³

- $C_{12}H_6Cl_2N_2O_8S_2$ *p p* Dibenzenesulfonyl chloride 3,3'-di-nitro- 48¹
 $C_{12}H_6Cl_2N_2O_8S_2$ Benzenesulfonyl chloride 4,4'-thio bis 3-nitro- 1506
 $C_{12}H_6Cl_2N_2O_8S_2$ Phenol 3-chloro-4-nitroso-compd with 3-chloropropionic acid 5660⁶
 $C_{12}H_6Cl_2O_2$ Dibenzofuran 1,6-dichloro- 935
 $C_{12}H_6Cl_2O_2$ Naphthalyl chloride 935
 $C_{12}H_6Cl_2NO_2$ Ether 3-chloro-2-nitrophenyl 2,2-dichlorophenyl P 302²
 $C_{12}H_6Cl_2N_2$ Azobenzene 3,3'-tetrachloro- 4561¹
 $C_{12}H_6Cl_2N_2O$ Azoxybenzene 3,3'-4,4'-tetrachloro- 9 3 2633
 $C_{12}H_6Cl_2S_2$ Disulfide bis 2,2'-dichlorophenyl 4560⁶
 $C_{12}H_6Cl_2O_2S$ 1-Naphthol 2,4'-dithioxyano 1 3 58¹
 $C_{12}H_6Cl_2O_2$ Parado 1,8'-dithioxyano 10 one 15 nitro 1631
 $C_{12}H_6Cl_2O_2$ Acenaphthenequinone 2 15
 $C_{12}H_6Cl_2O_2S$ Naphthothionequinone 1 16, 13 per Naphtho pyran 1 1 done 335¹
 $C_{12}H_6Cl_2O_2$ 3 Th ophanthredione 516⁶
 $C_{12}H_6Cl_2O_2$ 3 Naphthalene carboxylic anhydride 516¹
 $C_{12}H_6Cl_2O_2$ Methyl acid 333¹ and salt 9¹
 $C_{12}H_6Cl_2N_2$ Phenazine trichloro hydro- 714¹
 $C_{12}H_6Cl_2ClNO$ Phenazinic acid 2 1 4 tri-chloro- 14
 $C_{12}H_6BrClNO_2$ 1-ther 3-bromophenyl 4-chloro-9-nitrophenyl 20³
 $C_{12}H_6BrClO_2S$ Acenaphthenedisulfonyl chloride bromo 1515¹
 $C_{12}H_6BrNO_2$ Acenaphthenequinone 3-bromo- dioxime 1515¹
 $C_{12}H_6BrO_2$ Dibenzofuran 2-bromo- 270⁶
 $C_{12}H_6BrO_2$ 2-Naphthol 1,3,6-tetrabromo- acetate 945
 $C_{12}H_6BrN_2O_2$ Phenol 2,6-dibromo-4 2 4 di-nitroamino 283¹
 $C_{12}H_6BrN_2O_2$ Azoxybenzene tribromo 482
 $C_{12}H_6BrN_2O_2$ Diphenylamine 2 2 4 tribromo 6-nitro- 1 43¹
 $C_{12}H_6BrN_2O_2S$ Naphthalic acid 3-bromo- 2 4 d-bromophenyl 5-nitro- 1 4 salt 1503¹
 $C_{12}H_6BrOS$ Phenol 4-bromo- 2 5-dibromo-phenylmercapto 133¹
 $C_{12}H_6ClN$ Phenazine 1-chloro and salt 107¹
 $C_{12}H_6ClNO_2$ Phenol 3-chloro-4-nitroso- per- rate 4539¹
 $C_{12}H_6ClO_2$ Dibenzofuran chloro- 295¹ 270⁶
 $C_{12}H_6ClNO_2$ Ether *p*-chlorophenyl 4-chloro-2-nitrophenyl 270¹
 $C_{12}H_6ClO_2$ Carbonyl and 2-naphthyl trichloro-methyl ester 1225¹
 $C_{12}H_6ClNO_2$ 2-Isonitroacetic acid 4 5 6 7 tetrachloro-1,3-diketone F ester 3323¹
 $C_{12}H_6FNO_2$ Biphenyl 4,4'-difluoro-2-nitro- 4232¹
 $C_{12}H_6NO_2$ 1,2'-Naphthalenedione P 1845¹
 $C_{12}H_6NO_2$ 2-Naphthol 3-cyano- 691¹
 $C_{12}H_6NO_2S$ Naphthothionequinone nitro- 5166¹
 $C_{12}H_6NO_2$ Dibenzofuran 1 and 2) nitro- 26¹
 $C_{12}H_6NO_2$ Naphthalene acid 2-nitro- 2,26¹
 $C_{12}H_6NO_2$ Pyridol 2,3-quinoline 510-one nitro- and salt 3653¹
 $C_{12}H_6AsClNO_2$ Phenazinic acid 2,4'-di-chloro- 214¹
 $C_{12}H_6AsClN_2O_2$ Diphenylamine, 2-dichloro- aryl 2,4-dinitro- 105¹
 $C_{12}H_6AsS_2$ Compd m 177 5¹, from 2-sulfonaphthaleneoxide, 1238¹
 $C_{12}H_6BrClO_2S$ Acenaphthenedisulfonyl chloride, bromo- 1518
 $C_{12}H_6BrClO_2S$ Benzenesulfonyl chloride, *p*-(*p*-bromophenyl), 1816¹
 $C_{12}H_6BrClO_2S$ 2-Isonitroacetic acid 1-bromo- acetyl 5-chloro-3-methyl, 5167¹
 $C_{12}H_6BrF$ Biphenyl 4-bromo-4-fluoro, 4253¹, 4542¹
 $C_{12}H_6BrNO_2$ Acenaphthene 3-bromo-4-nitro-, Biphenyl, 3-bromo-3-nitro-, 510¹
 $C_{12}H_6BrNO_2S_2$ 1,3,6-Carbazotrisulfonic acid 8-bromo- P 966¹
 $C_{12}H_6Br$ Biphenyl 3,3'-dibromo, 4572¹
 $C_{12}H_6BrClS_2$ Stannane, bis(*p*-bromophenyl) di-chloro- 2702¹
 $C_{12}H_6BrClS_2$ Stannane dibromobis(*p*-chlorophenyl), 2702¹
 $C_{12}H_6BrI_2S_2$ Stannane bis(*p*-bromophenyl) di-iodo-, 2702¹
 $C_{12}H_6BrI_2S_2$ Stannane dibromobis(*p*-iodophenyl), 2702¹
 $C_{12}H_6BrN_2$ Azobenzene, *p*, *p*-dibromo-, 1235¹
 $C_{12}H_6BrN_2O_2$ Xenylamine 2,4'-dibromo-6-nitro- 5673¹
 $C_{12}H_6BrO_2S_2$ Stannane di(*p*-bromophenyl) 2703¹
 $C_{12}H_6BrO_2$ 2-Naphthol dibromo-, acetate, 945¹
 $C_{12}H_6BrO_2S$ Phenol thio bis(4-bromo-, 5407¹
 $C_{12}H_6BrO_2$ Naphthalenediol, dibromo-, acetate, 512¹ 945¹
 $C_{12}H_6BrO_2S$ Benzenesulfonic acid, 2-bromo-6-m-bromophenyl 4572¹
 $C_{12}H_6BrS_2S_2$ Stannthiose di(*p*-bromophenyl) 2703¹
 $C_{12}H_6BrS_2$ Disulfide bis(*p*-bromophenyl), 2125¹
 $C_{12}H_6BrS_2S_2$ Diphenylstannic anhydride, *p*, *p*-dibromophenyl, 2703¹
 $C_{12}H_6BrN$ Diphenylamine, 2,2',4-tribromo-, 1503¹
 $C_{12}H_6BrNO_2S_2$ Sulfamic acid, 3-bromo- 2 4 d-bromophenyl salt 1503¹
 $C_{12}H_6BrO_2$ Naphthalene, 2,4,6,8-tetrabromo- 1,5-dithioxy 512¹
 $C_{12}H_6BrO_2$ 2-Naphthalenone, 1,1,3,3-tetra-bromo-3,4-dihydro-4-hydroxy acetate 945¹
 $C_{12}H_6BrS_2$ Stannane, ditromobis(*p*-bromo-phenyl) 2702¹
 $C_{12}H_6BrO_2$ 2-Naphthol, 1,1,3,4,6,7-hexabromo-, 4,6,7-tetrahydro- acetate, 946¹
 $C_{12}H_6C_6K_2O_8$ + 11H₂O Potassium centratrate 1750¹
 $C_{12}H_6ClF$ Biphenyl, 4-chloro-4-fluoro, 4542¹
 $C_{12}H_6ClN$ Carbazole, 1-chloro-, P 1262¹
 $C_{12}H_6ClNO_2$ Acenaphthene, 3-chloro-4-nitro-, 3983¹
 $C_{12}H_6Cl$ Biphenyl, 3-chloro-3-nitro- 515¹
 $C_{12}H_6ClNO_2$ 2-chloro-, 1532¹, 2953¹, 3000¹
 $C_{12}H_6ClNO_2$ Ether chloro-2-nitrophenyl phenyl, P 302¹, 2702¹
 $C_{12}H_6ClNO_2S_2$ 1,3,6-Carbazotrisulfonic acid, 8-chloro- P 966¹
 $C_{12}H_6ClNS_2$ 1-Iso benzotriazole, 1-chloro-6-phenyl, 2,26¹
 $C_{12}H_6ClNO_2$ Aniline, 2-(2-chloro-4(?) nitro- phenoxy)-4-nitro-, 270¹

- C₁₂H₈Cl₂ Acenaphthene, 3,4-dichloro-, 3989¹
 Biphenyl dichloro-, 4860^{2,3}
- C₁₂H₇Cl₂NO₂ Ether, *p*-iodophenyl *o*-nitrophenyl, dichloride, 2705⁴
- C₁₂H₇Cl₂I₂Sn Stannane bis(*p*-chlorophenyl)diiodo-, 2702⁵
 Stannane dichlorobis(*p*-iodophenyl) 2702⁵
- C₁₂H₇Cl₂N₂ Azobenzene 2,5-dichloro- 4860²
- C₁₂H₇Cl₂N₂O Hydrazine bis(4-chloro-2-pyridyl carbonyl), 2429¹
- C₁₂H₇Cl₂O₂Sn Stannone di(*p*-chlorophenyl) 2702⁵
- C₁₂H₇Cl₂O₂S Phenol thioals[4-chloro- 5407⁶
- C₁₂H₇Cl₂O₂S Benzenesulfonyl chloride *p* *p* oxybis-, 1816⁷
- C₁₂H₇Cl₂S Sulfide, bis(*p*-chlorophenyl) 2611⁸
- C₁₂H₇Cl₂SSn Stannithione di(*p*-chlorophenyl) 2703¹
- C₁₂H₇Cl₂S₂ Disulfide, bis(*p*-chlorophenyl) 2128⁹
- C₁₂H₇Cl₂S₂Sn Benzenestannone anhydride *p*,*p*'-dichlorotritio- 2703¹
- C₁₂H₇Cl₃N Diphenylamine 3,4,5-trichloro 2146⁸
- C₁₂H₇Cl₃NO Aniline 4-chloro-2 (2,5-dichlorophenyl), *P* 302⁸
- C₁₂H₇Cl₃N₂ Hydrazobenzene 2,2,5,5-tetrachloro-, 4861²
- C₁₂H₇Cl₃Sn Stannane dichlorobis(*p*-chlorophenyl) 2702⁵
- C₁₂H₇Cl₃I₂Sn Stannane dichlorobis(*p*-iodophenyl), tetrachloride 2703¹
- C₁₂H₇Cl₃NO₂ Biphenyl, 4-fluoro 4-nitro 4343¹
- C₁₂H₇Cl₃O₂S 3,3-Benzenesulfonyl fluoride 283⁷
- C₁₂H₇Cl₃O₂S *p* *p* B phenol bis(fluorosulfonate), 929¹
- C₁₂H₇Cl₃N₂F₂ *p*,*p*'-bis(benzenediazonium) hexafluorophosphate 1754²
- C₁₂H₇Cl₃N₂Zn₂ Ammonium zinc ferrocyanide, 5850³
- C₁₂H₇Cl₃ 1,2-Bis(mercaptophenyl) 518² 957² 1831⁷, 1832¹
- C₁₂H₇Cl₃NO Diphenyl 3-iodo 3-nitro 5157²
- C₁₂H₇Cl₃NO₂ Acenaphthene 3-iodo-2-nitro 3988²
- C₁₂H₇Cl₃NO₂ Ether *p*-iodophenyl *o*-nitrophenyl 2705⁴
- C₁₂H₇Cl₃NO₂S 3,6-Carbazotrisulfonic acid 1-hydroxy 3-iodo-, *P* 965²
- C₁₂H₇Cl₃NO₂S 1,3,6-Carbazotrisulfonic acid 8-iodo- *P* 966¹
- C₁₂H₇Cl₃O₂Sn Stannone, di(*p*-iodophenyl), 2703¹
- C₁₂H₇Cl₃O₂S₂ Disulfide bis(*p*-iodophenyl) 3338⁷
- C₁₂H₇Cl₃SSn Stannithione, di(*p*-iodophenyl), 2703¹
- C₁₂H₇Cl₃S₂Sn Benzenestannone anhydride *p*,*p*'-diiodotritio- 2703¹
- C₁₂H₇Cl₃Sn Stannane, diiodobis(*p*-iodophenyl), 2702⁵
- C₁₂H₇Cl₃N₂O 1-Phenazool, 4885²
 Pyrido[2,3-*b*]quinolin 5(10)-one 3651¹
- C₁₂H₇Cl₃N₂O₂ Carbazole, 1-nitro-, *P* 1262²
- C₁₂H₇Cl₃N₂O₂S *p*-Biphenylamine thioamide, 2818²
- C₁₂H₇Cl₃N₂O₂ Isomotic anhydride, 3000⁷
 Ketone, *o*-nitrophenyl 2-pyridyl 5675⁷
 Nicotinic anhydride, 3000⁷
- C₁₂H₇Cl₃N₂O₂ Acenaphthene dimetro-, 3988²
 Biphenyl, dimetro-, 4252²
- C₁₂H₇Cl₃N₂O₂S 3,8-Phenothiazinedisulfonic acid dimetro-, *ds* *K* salt, 1506²
- C₁₂H₇Cl₃N₂O₂S *p*,*p*'-Dibenzene sulfonic acid, 3,3'-dimetro-, 4371¹
- C₁₂H₇N₂O₂S₂ Benzenesulfonic acid, 4,4'-thiobis[3-nitro-, *and salts* 1506² 1506²
- C₁₂H₇N₂O₂S₂ Benzenesulfonic acid 4,4'-thiobis[3-nitro *ds* *K* salt, 1506²
- C₁₂H₇N₂O₂S₂ 1,3,6-Carbazotrisulfonic acid 8-nitro-, *P* 716²
- C₁₂H₇N₂O₂S₂ Benzenesulfonic acid 4,4'-sulfonylbis[3-nitro *and salts* 1506²
- C₁₂H₇N₂O₂S₂ Diphenylamine 2,4,6-trimetro-, 2892² 3321²
- Purozan 3,4,1,5-(5-methyl 3-isoxazolyl)carboxyl 4548²
- C₁₂H₇N₂O₂S 1-Naphthalenecarboxylic acid 2,4,5-trimetro- *Me* ester 4876²
- C₁₂H₇N₂O₂S Sulfamic acid *N* (2,4-dimetrophenyl) 3-nitro *Na* salt 1503²
- C₁₂H₇O Dibenzofuran 295² 2144² *P* 4256¹ 5097²
- C₁₂H₇O Diphenoquinone 502²
 Naphthofuranone 3349²
- C₁₂H₇O Glyoxal 2-furylphenyl 4876²
- C₁₂H₇O Naphthalene dicarboxylic acid, *F* 116² *P* 603² 694 2987²
- C₁₂H₇O₂S 1,2-Thionaphthenedicarboxylic anhydride 6-ethoxy 5165²
- C₁₂H₇S *p*-Naphthothuophene 5166²
 Thionaphthene 5166²
- C₁₂H₇AsCl₂PO₂S Benzenesulfonyl fluoride *m* (chlorophenyl)arsyl, 284²
- C₁₂H₇AsCl₂N Phenarsazine 1-chloro-1,6-di-hydro- 107² 1831² 2146² 2720²
- C₁₂H₇AuCl₂ Phenylphenylgold dichloride 4863²
- C₁₂H₇AuCl₂N₂ 3-Acenaphthediazonium chlorosulfate, 3988²
- C₁₂H₇Br₂O Boric acid bis(*p*-bromophenyl) 928¹
- C₁₂H₇Br Acenaphthene bromo- 1518² 3988²
- C₁₂H₇Br₂N Azobenzene *p*-bromo-, 1238²
- C₁₂H₇Br₂N₂O Xenylamine 2-bromo-6-nitro- 5673¹
- C₁₂H₇Br₂N₂O Aniline 2 (*p*-bromophenoxy)-4-nitro-, 2705⁴
- C₁₂H₇Br₂N₂O₂ Aniline *o*-bromo- *p*-carate 5810²
- 3-Picoline, bromo-, picrate 3343²
- C₁₂H₇Br₂O Acetophenone bromo- 5417²
- C₁₂H₇Br₂O₂ 2-Naphthol 3-bromo acetate 945²
- C₁₂H₇Br₂O₂S Acenaphthenesulfonic acid bromo- *and Na* salt 1518²
- C₁₂H₇Br₂O₂S Benzenesulfonic acid *p*-(*p*-bromophenoxy) *Na* salt 1818²
- C₁₂H₇Br₂O₂S₂ Acenaphthenedisulfonic acid, bromo-, *and salts* 1518²
- C₁₂H₇Br₂S 1-Acenaphthényl mercaptan, 3-bromo-, 3419²
- C₁₂H₇Br₂ClO Anthraquinone, 1 *p*-chlorobenzoyl, dibromo deriv., 3990²
- C₁₂H₇Br₂NO₂S Benzenesulfonic acid 4,4'-aminobis[3-bromo-, *ds* salt 1503²
- C₁₂H₇Br₂NO₂O Acetonitrile *α* *α*-dibromo *α* (2,4,6-trimethyl 3,5-dinitrobenzoyl), 2953²
- C₁₂H₇Br₂O₂Naphthalene 2,4,6-tribromo-1,5-dimethoxy 312²
- C₁₂H₇Cl Acenaphthene 1-chloro-, 3985²
 Biphenyl *o*-(and *p*-chloro-, 561²
- C₁₂H₇Cl₂N Azobenzene, *p*-chloro-, 1238²
- C₁₂H₇Cl₂NO Fyridine, 2-benzamido 4-chloro-, 2429²
- C₁₂H₇Cl₂N₂O Aniline, 2 (chlorophenoxy)-4-nitro- 2705⁴
- C₁₂H₇Cl₂N₂O₂S Benzenesulfenamide, 4-chloro-3'-hydroxy 2-nitro-, 283²

- C₁₂H₉ClNO₃S Benzenesulfonamide 4-chloro-2-amino-4-hydroxy-2-nitro- 289^a
- C₁₂H₉ClNO₃ Quinone 2-chloro-1-oxime-4-p-trophephenylhydrazate 453^a
- C₁₂H₉ClO₃ Acetyl chloride 1(2 and 2) naphthoxy 113^a
- 2-naphthoxy chloride 3-methoxy 2135^a
- C₁₂H₉ClO₃ 1-Acenaphthenesulfonyl chloride 541^a
- Benzenesulfonyl chloride o-phenyl 48^a 2^a
- C₁₂H₉ClO₃S Benzenesulfonyl chloride p-phenoxyl 181^a
- Thionaphthenecarboxylic acid 1-acetyl-5-chloro-3-methyl 161^a
- C₁₂H₉Cl₂IO Ether o-iodophenyl phenyl dichloride 1504
- C₁₂H₉Cl₂N Diphenylamine dichloro 692^a
- 14^a 14
- C₁₂H₉Cl₂NO Aniline 5-chloro-2-(p-chlorophenoxyl) and HCl 270^a
- C₁₂H₉Cl₂NO Isordolnecarboxylic acid 7-dichloro-1-3-d-keto Et ester 332^a
- C₁₂H₉Cl₂NO Acenaphthene iodo 388^a
- Biphenyl o-iodo-4-iodo
- C₁₂H₉Cl₂O Benzamide 4-iodo-2-pyridyl 741^a
- C₁₂H₉ClO Ether o-iodophenyl phenyl 1504^a
- C₁₂H₉ClO₂ 2-Naphthoic acid 3-iodo-Me ester 2140^a
- C₁₂H₉N See Carbazole
- C₁₂H₉NO Carbazole P 2302^a P 3012^a P 4412^a
- Dibenzofuran 1-amino- 294^a
- C₁₂H₉NO₃ 1-Isotrozo-1'-2-dithiazole 1-hydroxy-6-phenyl 299^a
- C₁₂H₉NO₃ Acenaphthene nitro 3985^a
- 1-8-Carbazole P 1-62^a
- Ductamine 23^a
- Furo[2,3-b]quinoline 4-methoxy 297^a
- Iodophenol 300^a P 543^a
- Isoductamine 297^a
- Naphthosyl 4-methoxy, P 965^a
- 2-Pyrrolealdehyde 1-benzoyl 737^a
- C₁₂H₉NO₃ Acetamide, V (5-8-dihydro-3-8-di-keto-2-naphthyl), P 420^a P 1391^a
- Etter p-nitrophenyl phenyl 1816^a
- Ihenol m (m-nitrophenyl) 515^a
- C₁₂H₉NO₃ 7-8-Acenaphthenediol 1-nitro- 3988^a
- Compd m 215^a, from isochimamine, 299^a
- 5-Quinolnecarboxylic acid 8-hydroxy, acetate 2727^a
- C₁₂H₉NO₃S 1,3,6-Carbazotetrakisulfonic acid, 8-hydroxy P 965^a
- C₁₂H₉N₂ Acenaphthene 3-triazole 3955^a
- C₁₂H₉N₂O Pyridyl[2,3-β]quinoline 5(10) one, amino, and HCl 3651^a
- C₁₂H₉N₂O₂ Glutamide m-cyanoo-β-(p-nitrophenyl) 3653^a
- C₁₂H₉N₂O₂ Aniline 4-nitro-2-(p-nitrophenoxyl), 270^a
- C₁₂H₉N₂O₂ Benzenesulfonic acid p-(p-nitrophenoxyl), 270^a
- C₁₂H₉N₂O₂ 1-Naphthalenecarboxylic acid, 2,4-dinitro, Me ester, 45^a 6^a
- C₁₂H₉N₂O₂ Benzene, picrate, 1515^a
- C₁₂H₉N₂O₂S Sulfamic acid 1-(2,4-dinitrophenyl), 1/2 salt, 1503^a
- C₁₂H₉N₂O₂ Ihenol picrate, 151^a
- C₁₂H₉N₂O₂ Hydroquinone picrate, 1515^a
- Pyrocatechol picrate 1515^a
- Monocacid picrate, 151^a
- C₁₂H₉N₂O₂ 1,2,4-Benzenetriol picrate, 1515^a
- Thiologluconic, picrate, 151^a
- Pyrogallol picrate, 1515^a
- C₁₂H₉N₂O₂S Benzenesulfonic acid, 4,4'-amino-bis[3-nitro-, di 1/2 salt, 1503^a
- C₁₂H₉See Acenaphthene Biphenyl
- C₁₂H₉AsCl₂NO₃ o-Arsamic acid, 1-(3,4-dichlorophenyl), 2147^a
- C₁₂H₉AsCl₂ Arsane, chlorodiphenyl, dichloride, 1091^a
- C₁₂H₉AsFO₃ Arsanic acid, {m (fluorosulfonyl) phenyl}phenyl, 2841^a
- C₁₂H₉AsNO₃S Benzenesulfonamide, o-diazoarsyl, 931^a
- C₁₂H₉AsNO₃S Benzenesulfonamide, o-arsosono-, 931^a
- C₁₂H₉AsNO₃S 1,3,6-Carbazotetrakisulfonic acid, 8-arsosono-, P 965^a
- C₁₂H₉As₂N₂O₂ o-Arsamic acid, 1-(2,4-dinitrophenyl) 108^a
- C₁₂H₉BrN 3-Acenaphthenamine, 4-bromo-, 1518^a
- C₁₂H₉BrNO₂ Acetamide, N (4-bromo-2-naphthyl) 945^a
- Acetamide, o-bromo-1,2-naphthyl, 293^a
- Acetonaphthone bromo-, oxime, 5417^a
- C₁₂H₉BrNO₃S Acenaphthenesulfonamide, bromo- 1518^a
- C₁₂H₉BrNO₃ + H₂O Indoxyl 1-acetyl 6-bromo-, acetate hydrate 1522^a
- C₁₂H₉BrNO₃S Benzenesulfonamide, p (p-bromophenoxyl), 1516
- Sulfamic acid, V (p-bromophenyl), 1/2 salt 1503^a
- C₁₂H₉BrN₂ Malonomitrile (3-bromo-4-dimethylaminobenzal), 1509^a
- C₁₂H₉Br₂ 5105^a
- C₁₂H₉Br₂O₂ Naphthalene, 2,6-dibromo-1,5-dimethoxy 512^a
- C₁₂H₉ClN o-Biphenylamine, chloro-, 4560^a
- Diphenylamine, chloro-, 692^a, 2146^a
- C₁₂H₉ClNO₂ Acetamide, V - chloro - N - 2-naphthyl 944^a
- Aniline o-(chlorophenoxyl), and HCl, 270^a 2^a
- , chloro-2-phenoxy, 295^a, P 302^a and HCl, 270^a
- C₁₂H₉ClNO₂ Catechonic acid hydroxy, β-chloromethyl ester 954^a 824^a
- C₁₂H₉ClNO₂ 2-Isordolnecarboxylic acid, 5-chloro-1,3-d-keto-Et ester 332^a
- C₁₂H₉ClNO₂S Benzenesulfonamide, amino-4-chloro-2-nitro-, 259^a
- C₁₂H₉Cl₂TI 5103^a
- C₁₂H₉Cl₂ Naphthalene bis(chloromethyl), P 1839^a
- C₁₂H₉Cl₂N₂ Benzidine 2,5-dichloro-, 4560^a
- Hydrazobenzene, 2,5-dichloro-, 4560^a
- C₁₂H₉Cl₂Sn Stannane, dichlorodiphenyl, 3976^a
- C₁₂H₉Cl₂O₂ 1,3-Benzodioxan-6-carboxylic acid, 2,4-bis(dichloromethyl), Me ester, 5428^a
- C₁₂H₉FN Xenylamine 4-fluoro-, 4543^a
- C₁₂H₉FN₂O₂ m-Baniline, 5,8-d-fluoro-, 4253^a
- C₁₂H₉GeN₂ Germanium diphenylamide, di HCl 566^a
- C₁₂H₉Hg Mercury diphenyl 3975^a, 5539^a
- C₁₂H₉HgO₂ Naphthalene 1(2 and 2) (acetoxy mercury) 931^a
- C₁₂H₉HgO₂S Benzenesulfonic acid, p (phenyl mercunmercaptate), 4908^a
- C₁₂H₉I₂NO Aniline, o-(p-iodophenoxyl), and HCl 270^a
- 2-Nitroindole 1-benzyl 5-iodo-, 953^a
- C₁₂H₉I₂b₂ Subine, iododiphenyl, 1823^a
- C₁₂H₉Mg Magnesium d phenyl 395^a

- C₁₀H₁₁N₃O₂ Δ⁴, Δ⁵, 8-cyclohexadecanone, 4172⁴
 Carbazole, 1 amino-, P 716¹ P 966¹
 Harman, 301¹, 700¹, 4055¹, 4056¹, 4315¹
 C₁₀H₁₁N₂O (See also *Asoxybenzene*)
 1 Carbazolol 8-amino-, P 1262¹
 Diphenylamine, N nitroso-, *β*-naphthylamide
 1810¹
 Harmol, 4056¹
 Phenol, *p*-phenylazo-, 1503¹, 5151¹ *add*
compds, 3321¹
 Pyridine, 3-benzamido- and HCl, 3344¹
 C₁₀H₁₁N₂O₂ 4 Thiazoleacetone, 2 *p*-anisyl
 932¹
 C₁₀H₁₁N₂O₂ 1 Acenaphthenamine nitro-, 3988¹ *
 m Biphenylamine, 3 nitro- 5157¹
 Glutarimide, α -cyano-*p*-phenyl, 3653¹
 Phenol, *p*-azobis 1505¹
 Pyridine, 2-nitrobenzyl and HCl 5675¹
 Xenylamine, 4 nitro-, 4252¹
 C₁₀H₁₁N₂O₂ Benzidine sulfone 4254¹
 C₁₀H₁₁N₂O₂ Aniline nitrophenoxyl 1816¹, 2703¹
 Glycine (amino)carboxyl, 3000¹
 Pyridine 2 benzoyloxy 5-nitro- 953¹
 2(1) Pyridone 1 benzyl 5-nitro- 953¹
 C₁₀H₁₁N₂O₂ Benzenesulfonic acid *p*-phenylazo
 and salts, 287¹ *Na salt* 532¹
 Oxalic acid *N*-benzyl 2-thio- 3377¹
 C₁₀H₁₁N₂O₂ 1(2) Pyrimidineacetic acid 3 *β*-di
 hydro 2 *β*-diketo 4 phenyl 516¹
 C₁₀H₁₁N₂O₂ Benzenesulfonic acid *p* (*p*-hydroxy
 phenylazo) *Na salt* 1505¹
 C₁₀H₁₁N₂O₂ Sulfamic acid *N* (*p*-nitrophenyl)
 salts, 1503¹
 C₁₀H₁₁N₂O₂ 2 Isourolidoneacetic acid 1 3-diketo-
 4 (and 5) nitro- Et ester 332¹
 C₁₀H₁₁N₂O₂ Benzenesulfonic acid 3 nitro 4 4
 isomols, di *Na salt* 1503¹
 C₁₀H₁₁N₂O₂ 1, 3 6 Carbazotrisulfonic acid,
 8 amino-, P 716¹
 C₁₀H₁₁N₂Zr Zirconium 4 phenyldinitrogen
 2030¹
 C₁₀H₁₁N₂ Phenazine 2 3-diamino-, 3343¹
 Pyridol[2, 3-*β*]quinolin 5(10)-one hydrazone
 3651¹
 C₁₀H₁₁N₂O Pyridol[2 3-*β*]quinolin 5(10)-one di
 amino, and di HCl 3651¹
 C₁₀H₁₁N₂O₂ Malononitrile (4-dimethylamino-3
 nitrobenzyl) 1509¹
 C₁₀H₁₁N₂O₂ Aniline picrate 2892¹
 3-Picoline *p*-cate 2345¹
 C₁₀H₁₁O (See also *Phenyl ether*)
 Acenaphthenol, P 2154¹ 3988¹
 2 Acetonaphthone 944¹
 Ether 1 (and 2) naphthyl vinyl P 302¹
 Phenol phenyl, 503¹ P 1266¹ 2712¹ *
 5097¹, 5248¹
 C₁₀H₁₁O₂ Phenyl mercaptan *p*-phenoxy 1816¹
 Phenyl sulfoxide 2611¹, 5043¹ 5830¹
 C₁₀H₁₁O₂ Stannane diphenyl oxide 3976¹
 C₁₀H₁₁O₂ 3, 4 Acenaphthenediol, P 2154¹
 3, 7(2) Acenaphthenedione 1 *β*-dihydro-
 1832¹
 Biphenol, 502¹, 503¹, 5097¹
 1 Naphthoic acid 4 methyl P 603¹
 1, 4 Naphthoquinone 2, 5-dimethyl 685¹
 Phenol, dinitroxy, 503¹ 1815¹, 5408¹
 Pyrene, methylphenyl, 2145¹, 2352¹
 C₁₀H₁₁O₂ 1 Acenaphthenesulfonic acid, 5419¹
 2 Naphthol, 1 mercapto- acetate 3330¹
 Phenol, *p*-thiolis, 5407¹
 Phenyl sulfone 5063¹, 5830¹
 C₁₀H₁₁O₂ 2, 4, 5-Biphenyltriol 281¹
 Ketone 2 furyl α -hydroxybenzyl, 4876¹
 2 Naphthoic acid, methoxy, 945¹ 1518¹,
 2138¹, 3654¹
 Phenol *p*, *p*-oxybis- 1816¹
 C₁₀H₁₁O₂ 1 Acenaphthenesulfonic acid and
Na salt 5419¹
 Acetic acid (2 hydroxy 1 naphthylmer-
 capto) 3330¹
 Benzenesulfonic acid *p*-phenoxy 1816¹
 Benzenesulfonic acid *o*-(phenyl) 4872¹
 Phenyl sulfite 1797¹ 2982¹
 C₁₀H₁₁O₂ (See also *Quinhydrone*)
 Glutamic anhydride *β*-*p*-anisyl 4852¹
 Isopropic acid 4657¹
 C₁₀H₁₁O₂ Benzenesulfonic acid *p*-phenoxy
 1816¹
 Resorcinol thiois 5407¹
 C₁₀H₁₁O₂ Chromone 3 acetyl 7 8-dihydroxy 2
 methyl 5671¹
 Compd m 226¹, from compd m 127¹,
 4240¹
 Compd, m 274¹ from compd m 131¹
 4250¹
 C₁₀H₁₁O₂ 1 2 Thionaphthenedicarboxylic acid
 5-ethoxy 5165¹
 C₁₀H₁₁O₂ 2 1 Benzopyran 3-carboxylic acid 1
 keto-7 8-d methoxy 5898¹
 C₁₀H₁₁O₂ 2, 6 *o*-dibenzenesulfonic acid 98¹
 C₁₀H₁₁S (See also *Phenyl sulfide*)
 1 Acenaphthenyl mercaptan 5419¹
 C₁₀H₁₁S Phenyl disulfide 2128¹
 C₁₀H₁₁S Phenyl selenide 2611¹
 C₁₀H₁₁Te Phenyl telluride 2611¹
 C₁₀H₁₁AsN₂O Benzenearsonic acid *p* (2, 4-di
 hydroxyphenylazo) 427¹ 4937¹
 C₁₀H₁₁AsO Benzenearsonic acid *o*-phenoxy
 4863¹
 C₁₀H₁₁BrN₂O₂ Acenaphthepedimulfonamide
 bromo- 1518¹
 C₁₀H₁₁BrNO Acetonitrile α -*o*-dibromo- α -(2 4 6-
 trimethylbenzoyl), 2985¹
 C₁₀H₁₁BrN₂ Isopyrrole 3 4 5-trimethyl 2 (3 4 5-
 trihydro-2 pyrrylmethylene) HBr
 4281¹
 C₁₀H₁₁ClN₂ *p*-Phenylethyldiamine *N* (*p*-chloro-
 phenyl) P 1262¹
 C₁₀H₁₁ClN₂O Pyridine 2 acetamido 5-amino-3
 (6-chloro-3 pyridylazo) P 4892¹
 C₁₀H₁₁ClO₂ Levulinic acid, 3-chloro-, acetate
 94¹
 C₁₀H₁₁ClNO Acetonitrile, α , α -dichloro- α -(2, 4 6-
 trimethylbenzoyl), 2985¹
 C₁₀H₁₁ClO₂ ketone 5, 6, 7 8-tetrahydro-1 (and
 2) naphthyl trichloromethyl, 933¹
 C₁₀H₁₁HgNO₂ Indole 2 3 bis(acetoxymercuri),
 700¹
 C₁₀H₁₁MoNO₂ + H₂O 5839¹
 C₁₀H₁₁N (See also *Diphenylamine*)
 Acenaphthenamine, 1518¹, 3988¹
 C₁₀H₁₁NO Acetamide *N*-naphthyl, 2690¹
 2 Acetonaphthone oxime 944¹
 Aniline, *p*-phenoxy 1816¹
 Hydroxylamine, *β*-*β*-di phenyl, 4244¹
 Ketone, 2 furyl α -hydroxybenzyl, oxime,
 4876¹
 Phenol, *o*-(*p*-aminophenyl), 2712¹
 2 Pyridol, 6 methyl 4 phenyl, 2145¹
 C₁₀H₁₁NO₂ 1 Acetonaphthone, 2 hydroxy,
 oxime, 3590¹
 Diacetamide, 1589¹
 2 Furaldehyde, 5-benzyl, oxime, 1245¹
 1 Naphthalenecarboxylic acid, Me ester,
 4576¹
 2 Naphthamide, 3 methoxy, 2138¹

- 3-Ferrolol 1 acetyl 5 phenyl 1827¹
 C₁₂H₁₁NO₂S 2 Thiazolocarbinol 4-phenyl acetate 2722¹
 C₁₂H₁₁NO₂S Cinchonine acid ethoxy, 5245¹ and salt 954¹
 Cinchonic acid 6 hydroxy Et ester 954¹
 1 Naphthoic acid 8-amino-5-methoxy P 963¹
 Pyruvic acid cyanophenyl Et ester 2135¹
 Quinonic acid Me ester 953¹
 C₁₂H₁₁NO₂S Benzenesulfonamide p phenoyl 1816¹
 Benzenesulfonic acid amino- 5109¹ & A
 Sulfonic acid N phenyl and lig salt 1003¹
 C₁₂H₁₁NO₂S Rhodamine 3 homopiperonyl 4241¹
 C₁₂H₁₁NO₂S Oxazolone 4 5-epoxy 4 5-dimethyl 2 3 4 methylendioxyphenyl 294¹
 C₁₂H₁₁NO₂S Benzenesulfonic acid p p imino bis lig salt 1503¹
 C₁₂H₁₁N₂NaO₂ See Sodium phenobarbital
 C₁₂H₁₁N₂NaO₂ Aniline p phenylazo- 4244¹ fluo- sulfate 1810¹
 Malononitrile (p dimethylaminobenzal) 1005¹
 Triazene 1 3 diphenyl 503¹ 1226¹ 4244¹
 C₁₂H₁₁N₂O₂ Cinchonamide N (carbamyl methyl) 3000¹
 2 Naphthaldehyde 3 hydroxy semicarbazone 2146¹
 Pyridine 2 4 amino 2 nitrobenzyl 567¹
 Quinaldamide (carbamylmethyl) 3000¹
 C₁₂H₁₁N₂O₂ Acetomitrile (2 4 6-trimethyl-3 5-dinitrobenzyl) 2858¹
 C₁₂H₁₁N₂O₂ Naphthalene dimethyl 5096¹
 Naphthalene ethyl 944 4041¹ 5416¹
 C₁₂H₁₁AsNO₂ o-Arsamic acid (p hydroxy phenyl), 108¹
 C₁₂H₁₁AsNO₂S Benzenearsonic acid o-(phenyl) sulfamyl 93¹
 C₁₂H₁₁AsN₂O₂ Benzenearsonic acid p 4-amino-2-hydroxyphenylazo 493¹
 C₁₂H₁₁AsN₂O₂ See Arisphenamine
 C₁₂H₁₁AsO₂S Benzenearsonic acid o o dithio- bis- 1228¹
 C₁₂H₁₁AsN₂O₂S Benzenesulfonic acid mercapto (sulfonmethylamino)indylamino Au deriv di Na salt P 960¹
 C₁₂H₁₁Br₂O₂ Butyric acid 8 γ dibromo-α keto-γ phenyl Et ester 4851¹
 C₁₂H₁₁Cl₂N₂ Quinolone 4-chloro-2-ethyl-3-methyl 2430¹
 C₁₂H₁₁Cl₂N₂S Thionine methyl chloride 457¹
 C₁₂H₁₁Cl₂N₂ Quinaldine 3 4-dichloro-α-dimethyl amino- 2430¹
 C₁₂H₁₁Cl₂O₂ Adipyl chloride β phenyl 5161¹
 C₁₂H₁₁Cl₃N₂ Lithylenamine β trichloro-α-[5 n 7 8-tetrahydro-1 and 2 naphthyl] 935¹
 C₁₂H₁₁CuN₂O₂ + H₂O D pyridinocupric formate hydrate 682¹
 C₁₂H₁₁NO₂ 5-Acetyl 8-hydroxy 1 methylquinoline oxazoline 2069¹
 C₁₂H₁₁MgN₂ Magnesium diamide 3959¹
 C₁₂H₁₁N₂ See also Benzidine (Hormalin)
 1 6 Acenaphthene diamine and sulfate, 3085¹
 o p Diamine 211¹
 Hydrazobenzene 1149¹ 2699¹
 p Phenylendamine N phenyl 503¹
 Pyridine 2 o-aminobenzyl, and di HCl, 100¹
 C₁₂H₁₁N₂O₂ Acetamide, N (5-amino-1 naphthyl), 417¹
 Azep[3 4-β]iodol 1(2)-one, 3, 4, 5, 10-tetrahydro-, 514¹
 o-Phenylendiamine, 4 phenoyl, 3816¹
 C₁₂H₁₁N₂O₂S Thiocyanic acid, α-p-aminyl propylene ester, P 1258¹
 C₁₂H₁₁N₂O₂ Carbostryl, 6-acetamido-4-methyl 296¹
 2 Naphthoic acid, 3 methoxy, hydrazide, 2138¹
 1 Naphthylamine, γ ethyl 2 nitro-, 2715¹
 4 Pyrazolocarboxylic acid, methylphenyl, Me ester, 3631¹
 8-Quinolol, 7-acetamido-α-methyl, and sulfate, 954¹
 Uracil 1 3-dimethyl 6-phenyl, 516¹
 C₁₂H₁₁N₂O₂S Butylamide, γ phthalimidodithio-, 2722¹
 Hydantoin 1 acetyl 5-benzyl 2 thio-, 1508¹
 C₁₂H₁₁N₂O₂ (See also Phenobarbital)
 Barbituric acid, 1 5-dimethyl-5-phenyl, P 2738¹
 4-Quinolincarboxylic acid, 6-hydroxy, Et ester 954¹
 C₁₂H₁₁N₂O₂ 3 H₂dantoinacetic acid, benzyl ester, 4228¹
 5-Hydantoinacetic acid α methyl 3 phenyl, 4527¹
 1(2) Pyrimidineacetic acid, 3, 4, 5, 6-tetrahydro-2 6-diketo-4 phenyl, 516¹
 C₁₂H₁₁N₂O₂S Benzenesulfonamide, p p' oxybis-, 1816¹
 C₁₂H₁₁N₂O₂S p p Benzenesulfonic acid, 3, 3 diamino-, 4871¹
 C₁₂H₁₁N₂O₂ Chrysoidine 1910¹
 C₁₂H₁₁N₂O₂ Glyoxylic acid, cyano-, Et ester, methyl(m nitrophenyl)hydrazide, 917¹
 1 Indanacetic acid, 2 3-diketo-, oxime semicarbazone 5162¹
 Propionic acid, α cyano α (m-nitrophenylazo), Et ester, 917¹
 C₁₂H₁₁N₂O₂S 1-lyrazole 1 (2 4 dinitrophenyl) - 5 (ethylmercapto) 3 methyl, 1247¹
 C₁₂H₁₁N₂O₂ Pyrazole, 1 (2, 4 dinitrophenyl) - 5-ethoxy 3 methyl, 1246¹
 C₁₂H₁₁N₂O₂S Histidine 2 mercapto-, picrate, 1247¹
 C₁₂H₁₁O₂ Dibenzofuran, tetrahydro-, P 4892¹
 Ether ethyl naphthyl, 1797¹, 5099¹
 — methyl 1 naphthylmethyl, P 1841¹
 C₁₂H₁₁O₂ Coumarin, 3, 4, 7 trimethyl, 4542¹
 Δ³ Cyclohexenone, 3-hydroxy-5 phenyl-, 3319¹
 Cyclopentanone, 2 benzoyl, 213¹
 2 Naphthaleneacetic acid 1, 2, 3 4-tetrahydro 1 hydroxy, γ lactone, P 967¹
 C₁₂H₁₁O₂ Chromone, 3 ethyl-7 hydroxy-2-methyl, 4251¹
 Cinnamaldehyde, α ethyl 3, 4 methyleneoxy, 1230¹, 4247¹
 Crotonophenone, β hydroxy, acetate, 5394¹
 1 Indanacetic acid, 3 keto-, Me ester, 1832¹
 1 3 Indandione, 2 ethyl-4-hydroxy-7 methyl, 2718¹
 Naphthaleneacetic acid, 1, 2, 3, 4-tetrahydroketo-, P 967¹, 183¹, 5161¹
 Phthalaldehyde 2 acetyl 2, 6 dimethyl, 2714¹
 Umbelliferone, 3 ethyl 4-methyl, 4251¹, 4869¹
 C₁₂H₁₁O₂ (See also Rotenic acid, Indole acid)

- Δ³-1-Butenone, 3 hydroxy-1-phenyl, methylcarbonate, 3631⁶
- Chromone, 3-ethyl-5,7-dihydroxy-2-methyl, 4250⁷
- Coumarin, 5,7-dimethoxy-4-methyl, 4250⁷
- , 6-ethoxy-7-methoxy-, 707⁸
- , 3-ethyl-5,7-dihydroxy-4-methyl, 4250⁷
- 1,3-Indandione, 2-ethyl-4-hydroxy-6-methoxy, 3140⁹
- Isotubane acid, 103⁹
- Succinic anhydride, α-methoxybenzyl, 1814¹
- C₁₂H₁₀O₂ Acrylic acid, β-(2,4-dimethoxybenzoyl), 486⁹
- Glutaconic acid, β-p-anisyl, 4852⁷
- Succinic anhydride, (2,4-dimethoxyphenyl), 466⁹
- C₁₂H₁₂O₂ 1,1,3-Propanetricarboxylic acid, 2-phenyl, 82¹
- β-Resorcyaldehyde, 5-methoxy, diacetate, 4260¹
- C₁₂H₁₂O₂S Glyoxylic acid, [2-(carboxymethylmercapto) p-phenyl], 5165⁷
- C₁₂H₁₀O₂S Acetic acid, α-α-(p-peroxybenedithio)bis-, 4393³
- C₁₂H₁₂S Naphthalene, 1,5-bis(methylmercapto), 3340⁶
- C₁₂H₁₂BrO₂ Succinic acid (5-bromo-2,4-dimethoxyphenyl), 4666¹
- C₁₂H₁₂BrN₂O₂ β-Diacetophenetide, 2,6-dibromo-, 280¹ 1817³
- C₁₂H₁₂BrO₂ Acetophenone, α-tribromotetra-methyl, 3404²
- C₁₂H₁₂BrO₂ Benzyl alcohol, α-(tribromomethyl)butyrate, 605¹
- C₁₂H₁₂ClO₂ Acetophenone, α-trichlorotetra-methyl-, 5404¹
- C₁₂H₁₂ClO₂ Acetophenone, α-trichloro-4-hydroxy-2-(and 5) isopropyl-5-(and 2) methyl, 935¹
- C₁₂H₁₂ClO₂ Amiac acid, 3-α,β,β-trichloroethyl-, Et ester, 5412²
- C₁₂H₁₂N₂ 2-Naphthylamine, V, N-dimethyl-, 4345⁶
- Quinolone, 2-propyl-, and salts, 1829⁶
- C₁₂H₁₂NO Acetonitrile, (2,4,6-trimethylbenzoyl) 2085⁶
- Lepidine, 6-ethoxy, P 3668⁶
- 2-Naphthylamine, 1-ethoxy, P 302⁶
- 4-Quinolone, 2-ethyl-3-methyl, 2430⁶
- C₁₂H₁₂NO₂ 2-Naphthyl mercaptan, 1-amino-4-ethoxy, P 1095⁶
- Thiazole, 2-(ethoxymethyl) 4-phenyl, 2722⁶
- C₁₂H₁₂NO₂ 3-Indolebutyric acid 514³
- Propanediol, (2-quinoyl), 5713⁶
- Quinaldine, 6,7-dimethoxy, 3004⁶
- 2-(1,3) Quinolinedione, 3-ethyl-1-methyl-, P 1263⁶
- C₁₂H₁₂NO₂S Rhodamine, 3-(p-methoxyphenethyl), 4241⁶
- C₁₂H₁₂NO₂ Alanine, N-cinnamyl, 2117⁶
- Cinnamaldehyde, α-ethyl-3-methylene-dioxy, oxime, 1230⁶
- 3-Indolepropionic acid, 7-methoxy, 4880⁶
- Δ⁴-Oxazoline 2-p-anisyl-4,5-epoxy-4,5-dimethyl, 204⁶
- γ-Pentenol acid, α-benzamido-, 1231⁶
- Phthalide, 2-acetyl 2,6-dimethyl, oxime, 2714⁶
- C₁₂H₁₂NO₂ α-Tolualdehyde, α-cyano-3,4,5-trimethoxy, 4541⁶
- C₁₂H₁₂NO₂S Glycolic acid homopiperonyl dithiocarbamate, 4241⁶
- C₁₂H₁₂NO₂ Isophthalic acid, 2-hydroxy-5-nitro-, di-Et ester 5409⁶, 5410¹
- Oxanolic acid, 2-carboxy-4,5-dimethoxy, mono-Me ester, 2149¹
- C₁₂H₁₂N₂O₂Sb + H₂O Tartaric acid Sb deriv., salt with p-nitrophenethylamine, 4852⁶
- C₁₂H₁₂N₂ 1,2,4-Benzenetriamine, N¹-phenyl, 108⁹
- Pyridine, 2-(2,4-diaminobenzyl) 5675⁷
- C₁₂H₁₂N₂O₂ 2(3)-Thiazolone, 4-p-tolyl, hydrazine Ac deriv, 1532¹
- C₁₂H₁₂N₂O₂ 1,1-Cyclopentanediacetamide α-α'-dicyano-3-methyl, 3319¹ 4234¹
- C₁₂H₁₂N₂O₂S 1,3,4,6-Thiodiazine-5-ol, 2-toluene, Ac deriv, 3002⁶
- C₁₂H₁₂N₂O₂S Hydantoinacetamide N-benzyl, 4228¹
- C₁₂H₁₂N₂O₂ Pyruvohydroxamamide, oxime Ac-Bz deriv, 3622¹
- C₁₂H₁₂N₂O Biguanide (hydroxynaphthyl), P 5041¹ and HCl, P 5296¹
- Thiazine 2-acetamide 4-amino-6-benzyl, 969¹
- , 2-acetamide 4-amino-6-methyl (and p)-tolyl, 958¹
- C₁₂H₁₂N₂O₂S 1-Naphthol-3-sulfonic acid, 6-(γ-guanilylguanido) P 5299¹
- C₁₂H₁₂N₂O₂S 2-Thiazine-mercaptan, 4-amino-6-propyl, picrate, 70¹
- C₁₂H₁₂N₂ Naphthalene 2-ethylidenehydro-, 4344⁶
- C₁₂H₁₂As₂Cl₂N₂O See Arspheamine
- C₁₂H₁₂BrNO₂ Δ²-Butenone, 3-bromo-4-(p-dimethylamino-phenyl), 1508⁶
- C₁₂H₁₂BrNO₂ Ethyl methyl ester, m 131⁶, of dicarboxylic acid which slowly carbonizes above 230⁶, 1520⁶
- Tyrosine N-(α-bromopropionyl), 5412²
- C₁₂H₁₂BrN₂Zn, 3925⁶
- C₁₂H₁₂Br₂O Guaiacol, 5-(α,β-dibromopropyl), acetate, 4538¹
- C₁₂H₁₂ClN₂Iodolone, 5-chloro-1,3,3-trimethyl-2-methylene, P 826⁶
- C₁₂H₁₂ClNO₂ Crotonic acid β-(p-chloro-anilino), Et ester, 2126¹
- Isoquinoline, 1-(chloromethyl)-3,4-dihydro-6,7-dimethoxy, HCl, 1530⁶
- C₁₂H₁₂Cl₂HgO Phenol, cyclohexyl, bis(chloromercuri) deriv, 4204¹
- C₁₂H₁₂Cl₂N₂Zn, 3925⁶
- C₁₂H₁₂Cl₂NO Carvacrol, 5-(β-trichloro-α-iminoethyl), and HCl, 935¹
- Thymol 6-(β-trichloro-α-iminoethyl) and HCl, 933¹
- C₁₂H₁₂Li₂N₂Zn 3925⁶
- C₁₂H₁₂NO₂Sb + H₂O Tartaric acid Sb deriv., salt with phenethylamine, 4852⁶
- C₁₂H₁₂N₂ Harman 1,2,3,4-tetrahydro-, 301⁶
- Iso-pyrrole 3,4,5-trimethyl-2-(2-pyrrolylmethylene), HBr, 4280⁶
- Sorbaldehyde, phenylhydrazine 5891⁶
- C₁₂H₁₂N₂O 3-Pyrazolone, 1,4,5-trimethyl-2-phenyl, P 2157⁶
- 2-Pyridindole, 1,2,3,4-tetrahydro-methoxy, 301⁶
- C₁₂H₁₂N₂O₂ 1-Pyrrolopropanol, 2-pyrrolo-carboxylate, 1826¹
- Quinolone, 8-amino-6-ethoxy-5-methoxy, P 5434¹
- α-Toluic acid, (α-methylacetosylidene) hydrazide, 1821¹

- Tryptophan methyl, 2446⁷
 C₈H₁₁N₃O₅S Pyrocatechol 4 {2 (γ-aminopropyl) 4 thiazyl}, and sulfate, 2722⁷
 C₈H₁₁N₃O₅S Benzoic acid, α (2 m dithiarylidenehydrazino), Me ester 269⁷
 Benzoic acid α (5 methyl 2 m dithiarylidenehydrazino), 269⁷
 C₈H₁₁N₃O₅ Crotonic acid β (p nitroaminol), Et ester 2126¹
 Spuro(hispidine) 9,1 cyclopentane/2 4 6 8-tetrone, 3 methyl 4234¹
 C₈H₁₁N₃O₅ Alanine N (m nitrobenzoyl) Et ester, 2117¹, 2115¹
 C₈H₁₁N₃O₅ Pentanol 3,5 dinitrobenzoate, 5408¹
 C₈H₁₁N₃S Thiazole, 4 methyl 2 (N methyl) p toluene, 4881⁷
 Δ Thiazolone 3 4 dimethyl 2 p tolyl imino-4881⁷
 C₈H₁₁N₃N₄O₅S Sec Meladren
 C₈H₁₁N₃ [2 2 Bipyrazine] 3 3 6 6 tetra methyl 2729¹
 Pyrazine 2,5 dimethyl 3 (5 methyl 2 pyrazinylmethyl) 2729¹
 C₈H₁₁N₃O₅ Δ¹ Pyrrolone 2 ethyl picate 2997¹
 C₈H₁₁N₃S 2(3) Thiazolone, 4 p tolyl 4 methylthiosemicarbazone 1532¹
 C₈H₁₁N₃O Pyridine 2,6 diamine 3 (ethoxy 3 pyridylazo), P 4892¹
 C₈H₁₁N₃O₅ 2 5 Piperazinedione, 3 6 bis (5-imidazolylmethyl) 5180⁷
 C₈H₁₁O 2 Acetonaphthone 5,6 7 8 tetra hydro- 943⁹
 Cinnamaldehyde, α ethyl β methyl 1230¹
 —, α-isopropyl 4247¹
 Compd, b₁ 140-1 5⁷, from HCO₂H and 3 methyl 5-phenyl pentan-3-ol 4857
 Cyclohexanone, 4 phenyl 5161¹
 Ether, allyl γ phenylallyl 2132⁷
 — α α dimethyl 2 butyl phenyl 1815¹
 1(2) Naphthalene, 3 4-dihydropentamethyl 693¹, 1232¹
 1 Pentan-3-ol 3 methyl α phenyl 4856⁹
 C₈H₁₁O₅ Δ¹ 2 Butanol 4 phenyl, acetate 923¹
 Cinnamaldehyde, α-ethylmethoxy 1230¹
 424⁷
 Cinnamic acid β isopropyl, 2133⁹
 — α methyl, Et ester, 82¹
 2 4-Pentanedione, 3-benzyl, 821¹
 2 Pentanone, 3 (β hydroxybenzyl) 2132¹
 m-Xylene, diacetyl, P 2439¹
 C₈H₁₁O₅ Eugenol acetate, 1632⁹
 Nemetite acid, 6-acetyl, Me ester 682¹
 Hydrocinnamaldehyde, α ethyl 3,4 methylenedioxy, 4247¹
 Isochavicol, acetate, 4538¹
 Isoeugenol, acetate, 2984¹
 α Toluic acid, α acetyl, Et ester 96¹
 2710¹
 Valeric acid, 4-benzoyl, 2135¹
 C₈H₁₁O₅ Adipic acid, β-phenyl, 1832¹, 5181¹
 Cinnamic acid, 4-ethoxy 3 methoxy, 2134¹
 5-m-Dioxan-2-ol, 2 phenyl, acetate 76¹
 Lactic acid, Et ester benzoate, 3311¹
 Phthalic acid, di Et ester, P 19⁷ 3395¹
 4819¹
 1-Propanol, 3 - (3,4-methylenedioxy phenyl), acetate, 4247¹
 Propionic acid, β,β' - phenylenebis, and Ag salt, 939¹
 Tubic acid, dihydro, 105¹, 1251¹
 C₈H₁₁O₅ 1,2,4-Benzenetriol, 3 6-dimethyl, diacetate, 5113¹
 Cinnamic acid trimethoxy-, 2134¹, 5405¹
 Nitroic acid 105¹
 Succinic acid, α methoxybenzyl-, 1814¹
 Valeric acid 4 (2,4-dihydroxybenzoyl), P 2737¹
 C₈H₁₁O₅ Succinic acid, (2,4-dimethoxyphenyl), 4863¹
 C₈H₁₁O₅ Acetic acid, α,α' (vanillaldithio)bis, 4393¹
 C₈H₁₁O₅ Deric acid, 1510¹, 3339¹, 5898¹
 C₈H₁₁BrN₃S Benzothiazole, 3-bromo-1 isobutylamino-5 methyl-, 4881¹
 C₈H₁₁BrO₅ Isodiolol, bromo-, acetate, 4533¹
 C₈H₁₁BrO₅ Benzene, 5 (β bromo α methoxy propyl) 1 methoxy-2 3-methylenedioxy, 4338¹
 C₈H₁₁BrN₃O₅ 3 Pyrrrolepropionic acid, α,β-dibromo-5 carboxy-2,4 dimethyl, 5-Et ester, 1020¹
 C₈H₁₁ClN₃O₅ Leucine, N (4-chloro-2 nitrophenylmercapto), 491¹
 C₈H₁₁ClN₃O₅ 2 Formyl-1,3,3-trimethyl pseudonolium perchlorate, oxime, 242¹
 C₈H₁₁ClO Butyryl chloride, α methyl-γ-o-tolyl, 1232¹
 Butyryl chloride, γ-(2,4-xylyl), 693¹
 C₈H₁₁ClO₅ Acetic acid (3,4 dimethoxyphenoxy) chloro deriv, Et ester, 5895¹
 C₈H₁₁N₃O₅ 4 Pyrazolol, 5-methyl-1-o tolyl methiodide 3342¹
 C₈H₁₁N₃O₅ Benzene, iodoso-, hydrate, propionate 3885¹
 C₈H₁₁N Aniline N, N-diallyl, 90¹
 2 Naphthylamine 3,4 dihydro-γ, N-dimethyl, 2139¹
 C₈H₁₁NO Benzoin acid, piperide, 3960¹
 1 Butanol 4 (3 indyl) 514¹
 Crotonamide, N-ethyl 489¹
 C₈H₁₁NO₅ Δ¹m-Indanacetic acid, α-cyanohexahydro 3333¹ 3334¹
 Δ¹l Pentenol carbamate, 4526¹
 4 Pyranocarboxamide, tetrahydro-, 681¹
 C₈H₁₁NO₅ Acetoxyide, hydroxy-, acetate, 930¹
 Glutaramic acid β-methyl, 362¹
 Norvaline N benzoyl, 1231¹
 α Tolunitrile 4 ethoxy 3 5 dimethoxy P 4284¹
 2,6 Xylene 4 amino di Ac deriv, 2424¹
 C₈H₁₁NO₅ Butyric acid α benzamido γ methylmercapto-, 5390¹
 C₈H₁₁NO₅ Glycolic acid, (β methoxy phenethylidithiocarbamate, 4241¹
 C₈H₁₁NO₅ 1-Propanol 2 3 dimethoxy-, β-nitrobenzoate 2692¹
 C₈H₁₁NO₅ Acetic acid, (3 4 dimethoxyphenyl) nitro deriv, Et ester, 5895¹
 C₈H₁₁N Quasoline 2 amino-5 6 dihydro 5-isopropoxy 8-methyl, 1244¹
 C₈H₁₁N₃O Cinnamaldehyde, α-ethyl, semi carbamate, 4247¹
 3 Indolebutyric acid, hydrazide, 514¹
 C₈H₁₁N₃O₅ α-Hexenaldehyde, β nitrophenyl hydrazone, 5140¹

- C₁₂H₁₆N₂O₂ Hemellic acid, 6-acetyl, semi carbazone, 683¹
 o-Toluic acid 6 acetyl, Me ester, semi carbazone, 685¹
 C₁₂H₁₆N₂O₂ Alanine, Δ [Δ (phenylcarbamyl) glycol], 2741¹
 Glycine, N (N-phenylcarbamylalanyl), 2741¹
 —, [(3-pyridylcarbonyl)glycol], Et ester 3000¹
 Hydrocinnaamyl azide, 2,4 5-trimethoxy 5405¹
 C₁₂H₁₆N₂O₂ m-Xylene, 5 *tert*-butyl-2,4,6 trimetro-, 547¹
 C₁₂H₁₆N₂O₂ Dimethylamine, picrolonate, 70¹
 Ethylamine, picrolonate, 70¹
 C₁₂H₁₆N₂O₂ Hexamethylenetetramine, picrate 4523¹
 C₁₂H₁₆ Cyclopentane, benzyl-, 2980¹
 Naphthalene ethyl 1,2,3,4 tetrahydro, 943¹ 4544¹
 C₁₂H₁₆BrNO₂ Acetamide, α bromo N (3,4 dimethoxyphenethyl), 1530¹
 2 Pyrolicarboxylic acid, 5 (bromomethyl) 3 methyl-4-propionyl-, Et ester 3009¹
 C₁₂H₁₆BrO₂ Galactose β acetodibromo- α , 921¹
 C₁₂H₁₆Br₂N₂S Benzothiazole, 3 bromo 1 isobutylamino 5 methyl-, hydrotri bromide, 4581¹
 C₁₂H₁₆ClNO₂ Acetamide, α chloro N (3,4 dimethoxyphenethyl), 1530¹
 C₁₂H₁₆ClNO₂ Acetamide, α chloro N (3,4 dimethoxyphenethyl), 1226¹
 C₁₂H₁₆ClNO₂ Tetraminocupric picrate, 683¹
 C₁₂H₁₆HgO₂S Benzoic acid α -(isoamylmercur mercapto), 1821¹, 4907¹
 C₁₂H₁₆HgO₂ Phenyl, cyclohexyl, la(hydroxy mercur) deriv., 42-4¹
 C₁₂H₁₆INO₂ Iodomethyltrimethylammonium acid phthalate P 2814¹
 C₁₂H₁₆N₂ Benzimidazole, 2 amyl-, 1800¹
 Benzimidazole, 2 β -methylbutyl 1800¹
 2 Indanacetamide, 2 cyanobenzhydro 3333¹
 β Matrimidine, 5429¹
 Pyridine, 3 (1 allyl 2 pyrrolyl) and salts 300¹
 Sorbaldehyde azine 683¹
 C₁₂H₁₆N₂O $\Delta^{1,2}$ Indanacetamide α cyano 3a 4 5,6 7,7a-hexahydro-, 3333¹ 3334¹
 Piperidine, 2 benzyl-1 nitroso-, 5429¹
 C₁₂H₁₆N₂O₂ 2 Butanone oxime, methylcarb amide 1600¹
 Cyclopentanecetic acid α ,1 dicyano 3 methyl-, Et ester 4234¹
 Homolevulinic acid phenylhydrazone 4547¹
 Levulinic acid, Me ester, phenylhydrazone 496¹
 Pentanone, oxime, carbamate 1500¹
 C₁₂H₁₆N₂O₂ Carbamic acid β acetamido-, iso propyl ester 5404¹ *Pr* ester 5404¹
 Phasoderm, 1289¹, 4626¹
 C₁₂H₁₆N₂O₂ Allophanic acid, γ - β phenethyl Et ester, 936¹
 Carbamic acid, β nitro-, AM ester, 2686¹ isoamyl ester, 2686¹
 C₁₂H₁₆(N₂O)₂ Anisole, 4-*tert*-butyl-3 methyl 2,6-dinitro-, 5408¹
 C₁₂H₁₆N₂S Benzothiazole, 1-butylamino 3 methyl-, 4851¹
 Benzothiazole, 1 isobutylaminomethyl 4851¹
 C₁₂H₁₆N₂O₂ Spiro[bupidine 9,1' cyclopentane] 2,6-dione, 4,8 duno-3-methyl 4234¹
 C₁₂H₁₆N₂O₂S Carbamic acid [α (4 phenyl 3 thiosemicarbazido)ethylidene], Lt ester, 3651¹
 C₁₂H₁₆N₂O₂ Theobromine, 1 (β hydroxy propyl), acetate, 1031¹
 C₁₂H₁₆N₂O₂ Theophylline arabinoside 5684¹
 C₁₂H₁₆N₂O₂ 1,3 Butanedione 1 phenyl disem carbazone, 3632¹
 C₁₂H₁₆N₂O₂ Histidine N histidyl, 5780¹
 C₁₂H₁₆N₂O₂ 1,2 Butanedione, 1 (2,4 di hydroxyphenyl), disemicarbazone 1510¹
 C₁₂H₁₆O₂ 2 Butanone, 3 methyl 4 o tolyl 4514¹
 Compd, b₂ 123-4 5¹ from reduction of of compd b₂ 140-1 5¹, 4857¹
 o-Cresol: 6 allyl-4-ethyl 930
 Ether α -ethyl Δ^1 butenyl phenyl 2982¹
 —, methyl 5 6 7 8 tetrahydro 2 naph thylmethyl P 2733¹
 —, γ phenylallyl propyl 2132¹
 3 Hexanone phenyl 4847¹
 Pentanone methylphenyl 485¹
 Phenol, α (methyl Δ^1 pentenyl) 2982¹
 C₁₂H₁₆O₂ Acetophenone 2 hydroxy 3 methyl α propyl 929¹ 930
 Benzene 4 β methylbutyl 1,2 methylene dioxy 424¹
 2 Butanone 4 β anisyl 3 methyl 691¹
 Butyric acid 2 6 xylol ester 929¹
 —, α methyl- γ -o-tolyl 1232¹
 —, γ (2,4 xylol) 693¹
 Butyrophenone 4 hydroxy 3 o di methyl, 929¹
 Caproic acid, α -phenyl, 2135¹
 Caprophenone hydroxy 1228¹
 o-Cresol, propyl acetate 929¹, 930¹
 Hydrocinnamaldehyde α ethylmethyl 4247¹
 Hydrocinnamic acid β isopropyl 2133¹
 —, α methyl, Et ester 4256¹
 —, trimethyl, 693¹ 5154¹
 2 Naphthalenecetic acid 1 2 3 4 5,6 7 8 octahydro-1 hydroxy γ lactone P 96¹
 2 Pentanone 3 β anisyl 691¹
 Phenol π (cyclohexyloxy) 408¹
 Propionic acid, ethyl α -tolyl ester 929¹
 Propiophenone ethylhydrazomethyl, 929¹
 C₁₂H₁₆O₂ (See also A1808)
 Acetic acid (o-butylphenoxy) 1229
 —, (isopropylphenoxy) 2983¹
 Acetophenone 2,4-dihydroxy, 515¹
 1 Butanol, 2 piperonyl, 4247¹
 Caprophenone, 2,4-dihydroxy, 4865¹
 4 3 Cresotic acid β isopropyl, Me ester, 3311¹
 Hydrocinnamic acid, β hydroxy β ,2,4 tri methyl, 693¹
 Isocaprophenone, 2,4-dihydroxy, 4865¹
 Isoeugenol, methoxy, Me ether, 4866¹
 Phenol 2- (ethoxymethoxy) 4 (and 5) propenyl, 5156¹
 Sabyleic acid, isoamyl ester, 3620¹
 Spiro[furan 3(2), 2 indan]-2,5(4) dione, hexahydro-, 3333¹, 3334¹
 β Thymotic acid, Me ester, 3311¹
 C₁₂H₁₆O₂ Butyrophenone, hydroxydimethoxy, 4250¹
 Caproic acid, α - (2,4 dihydroxyphenyl), P 2737¹

- Dicaric acid Et ester 5413¹
 Hydrocinamic acid 4-ethoxy-3-methoxy, 2134¹
 3,4 Nylac acid 2,6-dimethoxy, Me ester, 288⁹
- C₁₅H₁₄O₈ Asaronic acid Et ester 5154¹
 Benzoic acid 3 (and 4) ethoxy 4 (and 3) (ethoxymethoxy) 5106⁹
 1,2 Cyclohexanedicarboxylic anhydride 3 (carboxymethyl) 2,4 dimethyl, 3658¹
 1,2,3 Cyclohexanetricarboxylic acid, 2,4 dimethyl, anhydride Me ester 3658¹
 Hydrocinamic acid trimethoxy, 2134¹, 540⁹
- C₁₅H₁₄O₈ Glucoside, β phenyl 1232¹ 5147¹
 C₁₅H₁₄O (See also Arbutin)
 Glucal triacetyl, 506¹ 5147¹
 Mannal triacetyl, 5147¹
 C₁₅H₁₄O₈ Amylosan triacetyl 1496¹
 Levoglucosan triacetyl 4528¹
 C₁₅H₁₄O₈ Glucosone triacetyl 559⁹
 C₁₅H₁₄AsN₂O₈ Arsanilic acid N (β dimethyl carbamylpropionyl) and Na salt 2705²
 Arsanilic acid V (β ethylcarbamylpropionyl) and Na salt 2705²
 — N (propylcarbamylacetyl), and Na salt 540⁹
- C₁₅H₁₄Br₂ Nylene, 4 (γ bromo α methyl propyl) 693¹
 C₁₅H₁₄BrO₈ Veratrole 4 (β bromo α methoxypropyl) 4533¹
 C₁₅H₁₄BrO Rhamnose, acetobromo 1804¹
 C₁₅H₁₄BrO₈ Glucose, 1 α bromo 2,3,4-triacetyl 4528¹
 C₁₅H₁₄BrN₂S Benzothiazole, 1 - isobutylamino - 5-methyl hydrotribromide 4881¹
 C₁₅H₁₄BrN₂S Benzothiazole, 1 butylamino 3 methyl, hydrohexabromide, 4881¹
 Benzothiazole, 1 isobutylamino 3 methyl, hydrohexabromide, 4881¹
 C₁₅H₁₄ClO₈ Glucose 1 α chloro 2,3,4-triacetyl, 4528¹
 C₁₅H₁₄ClS Sulfide, (chlorobenzyl phenyl), 5395¹
 C₁₅H₁₄FO₈ Fructose, 2 fluorotriacetyl, 4232¹
 C₁₅H₁₄IN₂O₈ Pyrrolic, 3 (1 acetyl 2 pyrrolidyl) methiodide 300¹
- C₁₅H₁₄N Cyclohexylamine N phenyl P 5133¹
 Δ¹ Indanacetomethyl, hexahydro α methyl, 3333¹ 3334¹
 Piperidine, 1 benzyl 3345¹
 Quinoline, 2-ethyl 1,2,3,4 tetrahydro 3 methyl, and HCl, 2430¹, 2431¹
 Xenylamine, 1,2,3,4,5,6 hexahydro-P 712¹
- C₁₅H₁₄NO Acetamide, 2,3,4,5-tetramethyl, 4533¹
 2-Butanone, 3 dimethylamino 4-phenyl, 91¹
 Butyramide, γ (2,4 xylol), 693¹
 3 Hexanone, 1 phenyl, oxime 4557¹
 Hydrocinnamamide, β-isopropyl, 2133¹
 Indanamine, methoxy - V V dimethyl -, 2139¹
 2-Naphthol, 3 - dimethylamino - 1,2,3,4-tetrahydro-, 1513¹
 2-Naphthylamine, 1,2,3,4 tetrahydro 1 methoxy - N methyl, and HCl 2139¹
 Oxime b 159-162¹, of compd b, 123-4 5¹, 455¹
 Pentanone, methylphenyl, oxime, 4567¹
- C₁₅H₁₄NO₂ 2-Butanone, 4 - p - anisyl 3 methyl, oxime, 691¹
- Δ¹ - Cyclopenteneacetic acid, α-cyanodimethyl, Et ester, 4234¹
 2 Pentanone, 3 p anisyl, oxime, 691¹
 Spiroindan - 2,3' - pyrroudinol - 2,5 diene, hexahydro-, 3333¹, 3334¹
- C₁₅H₁₄NO₂ Acetophenone, α - diethylamino 3,4-dihydroxy-, 2200¹
 Carbamic acid, (p - methoxyphenethyl), Et ester, 5403¹
 Hydrocinnamamide, 4 - ethoxy - 3 - methoxy-, 2134¹
 2 Pyrrolicarboxylic acid, 3,5 dimethyl 4 propionyl Et ester, 3009¹
 —, 4 formyl 5 - methyl - 3 - propyl -, Et ester, 3010¹
 Tyrosine propyl ester, and HCl, 2742¹
- C₁₅H₁₄NO₂ Benzene, 1 nitro-2,4 - dipropyl -, 5669¹
 Ephedrine, 3 - methoxy 4,5 methylenedioxy and HCl, 4,35¹
 Glutamic acid, cyanodimethyl-, di Et ester 2695¹
 —, α cyano α ethyl, di-Et ester, 2696¹
 Homopiperonyl alcohol, 5 - methoxy α - methyl β methylamino -, and salts, 4535¹
 Hydrocinnamamide, trimethoxy, 2134¹, 540⁹
 2,4 Pyrrolicarboxylic acid, 5 methyl 3 propyl, 2 Et ester, 3010¹
 3 Pyrrolicarboxylic acid, 5 carboxy 2,4 dimethyl, di Me ester, 559⁹
- C₁₅H₁₄NO₂S Isoleucine, N phenylsulfonyl, 2117¹
 C₁₅H₁₄NO₂ Alanine, (2,4,5 trimethoxyphenyl) -, 2980¹, 5403¹
- C₁₅H₁₄N₂ Methano[5,6]quinazoline, 2 amino 5,6,7,8 tetrahydro-8,9,9-trimethyl 1254¹
- C₁₅H₁₄N₂O₂ Butanone, 4 - p - anisyl -, semi carbazone, 691¹
- C₁₅H₁₄N₂O₂ Spiro(cyclopentane 1,4' - piperidine) 3,5 - dicarboxamide, 2,6' diketo-3 methyl, 3319¹, 4231¹
- C₁₅H₁₄N₂O₂ 2 - Pyrrolicarboxylic acid, 3,5 dimethyl - 4 (β nitrovinyl), compd with MeNO₂, 962¹
- C₁₅H₁₄N₂O₂ Maleic acid, [α - (tetrahydro 2,5 diketo 1 imidazolyl)acetamide], di Et ester, 4225¹
- C₁₅H₁₄N₂S 2 Butanone, thio 4 - p - tolyl-semicarbazone, 1225¹
- C₁₅H₁₄N₂O₂ Burea 1 allyl - 2 - thio 6 - o - tolueno-, 3634¹
- C₁₅H₁₄S Benzene, hexamethyl-, 1134¹, 1501¹, 580⁹
 Compd, b 212-6°, from brown-coal tar oil, 3463¹
 Hexane, 1 phenyl, 3469¹, 5323¹
- C₁₅H₁₄AlClO₈ 5661¹
 C₁₅H₁₄AsN₂O₈ Arsenic, dicystenyl(3 - amino 4 hydroxyphenyl), 740¹
- C₁₅H₁₄BrN Phenethylamine, p - bromo - Δ, N - diethyl, P 2132¹
- C₁₅H₁₄BrNO₂ 2 Pyrrolicarboxylic acid, 5 - (bromomethyl)methylpropyl, Et ester, 3009¹, 3010¹
- C₁₅H₁₄BrNO₂S Benzene-sulfonamide, p - bromo N-ethyl, 2704¹
- C₁₅H₁₄BrN₂O₂ Histidine, N-β-bromosuccinyl, 5186¹
 Histidine, N - α - bromosuccinyl, methyl ester, 5187¹

- C₁₂H₁₇ClNO Acetonylbenzylidimethylammonium chloride, 91¹
 C₁₂H₁₇INO₂ Iodoethyltrimethylammonium mandelate, P 2814¹
 C₁₂H₁₇N₂ Quinaldine, α - dimethylamino - 1 2 3,4 tetrahydro-, 2430¹
 C₁₂H₁₇N₂O₂ Lrea, (3-camphorylidenemethyl) tho-, 1204¹
 C₁₂H₁₇N₂O₂ Miotone, 4625¹
 C₁₂H₁₇N₂O₂ Hydrazine, 2 p-cymyl, oxalate, 1224¹
 Hydrocinamic acid, 2,4,5 trimethoxy, hydrazide, 5400¹
 Spiro[cyclobutane - 1,5 (1') - pyrimidine] 2,4,6 (1 3) trione 3 amoxy, 2979¹
 Lrea, (trimethoxyphenethyl), 5400¹
 C₁₂H₁₇N₂S Urea, α - isobutylthio β p tolyl, 4881¹
 C₁₂H₁₇N₂O₂ Hydantoin, 3 [(4,5 dihydro - 5 isopropyl - 3 methyl - 1 pyrazolylcarboxyl)methyl], 4228¹
 C₁₂H₁₇N₂O₂ Dipropylamine, picrate, 701, 3514¹
 Hexylamine, picrate, 701
 Triethylamine, picrate, 701, 2626¹
 C₁₂H₁₇N₂O₂ Dipropylamine, stypnate, 701
 Hexylamine stypnate, 701
 Triethylamine stypnate, 701
 C₁₂H₁₇O Anisole, 4 tert butyl - 3 - methyl, 5408¹
 Anisole (8 methylbutyl), 4247¹
 Butanol, 3 methyl 4 o tolyl, 4544¹
 —, 3 (2,4-xylyl), 693¹
 Cresol, amyl, P 1334¹
 —, ethylpropyl, 929¹
 Ether, α methylbutyl (α and β) tolyl, 931¹
 Δ² Fenchoneacetaldehyde, 4836¹
 Fenchyl alcohol, 2 ethynyl, 4836¹
 Phenol, hexyl, 1270¹
 2 Propanone, 1 (hexahydro 2 indanyl idene)-, 3330¹
 2,6-Xylenol, 4 butyl, 929¹
 C₁₂H₁₇O₂ 1 Hexanol, 6 phenylmercapto-, 5394¹
 C₁₂H₁₇O₂ (See also Resorcinol, Hexyl-) 1 Butanol 2 methoxybenzyl 4247¹
 2 - Heptanone 4 (2 furyl) 6 methyl, 5424¹
 Menthene 3 - acetic acid 4 lactone, 4228¹
 Phenol m(hexyloxy) 5408¹
 Resorcinol 4 isobexyl, 4864¹
 s - Sp rohendecane - 2,4 - dione, 7 (and 8) methyl, 280¹
 C₁₂H₁₇O₂ Anisaldehyde, di Et acetal 922¹
 1798¹
 C₁₂H₁₇O₂ Camphoracean β acrylic acid, α carboxy 2990¹
 2 Indanacetic acid 2 carboxyhexahydro- 3333¹, 3334¹
 2 Indanmalonic acid hexahydro-, 3333¹
 Resorcinolcarboxylic acid propylidihydro-Et ester, 5413¹
 C₁₂H₁₇O₂ 1,2 Cyclopentanedicarboxylic acid 3 keto-1 methyl, di Et ester 4030¹
 Malonic acid (α - keto - α methyl Δ¹ - hexenyl) di Me ester, 5663¹
 —, (γ - keto α - propenylbutyl), di - Me ester 5663¹
 C₁₂H₁₇O₂ 1,2 - Cyclohexanedicarboxylic acid 3 - (carboxymethyl) - 2,4 dimethyl, 365¹
 1 2 3 Cyclohexanetricarboxylic acid 2 4 - dimethyl mono-Me ester, 360¹, 3808¹
 C₁₂H₁₇O₂ Mannal, triacetyl-dihydro-, 5147¹
 C₁₂H₁₇O₂ Riboside, triacetyl-methyl, 4299¹
 C₁₂H₁₇O + Glucosone triacetyl, hydrate, 5894¹
 C₁₂H₁₇ClO₂ 3 p Menthanecetic acid, chlorohydroxy, lactone, 4228¹
 C₁₂H₁₇N₂O₂ o-Hydroxybenzyltrimethylammonium iodide methylurethan, 4625¹
 C₁₂H₁₇N Aniline, N N'-dipropyl 1707¹
 Phenethylamine, N V-diethyl P 2133¹
 C₁₂H₁₇N₂O Benzyl alcohol p dimethylamino α isopropyl 1236¹
 Ethanol, 2 [methyl(γ - phenylpropyl) amino], 2709¹
 Phenethylamine β methoxy N, N α trimethyl 1814¹
 C₁₂H₁₇NO₂ Benzyl alcohol, α - (β ethoxy α methylaminoethyl), and HCl 2133¹
 Phenethylamine, β methoxy α (methoxy methyl) V methyl, 2133¹
 2 Pyrrolecarboxylic acid dimethylpropyl Et ester 3009¹ 3010¹
 C₁₂H₁₇NO₂ Mesitylenesulfonamide N propyl, 2704¹
 p Toluenesulfonamide N amyl 2704¹
 C₁₂H₁₇NO₂ Ephedrine 3 4-dimethoxy 4358¹
 Me ethers, in 60-2° and 90-7° of bases from isochavibetol acetate and HCl 4539¹
 Phenethylamine 4 ethoxy-3 5 dimethoxy, HCl, P 4284¹
 2 Pyrrolecarboxylic acid 4 ethyl 5 (methoxymethyl) 3 methyl, Et ester 4009¹
 Quosoline 2 carboxylic acid octahydro 1 keto- Et ester 3007¹
 C₁₂H₁₇N₂O₂ Glutamic acid α cyano β γ dimethyl di Et ester 1803¹
 C₁₂H₁₇N₂O₂ 3 5 Piperidinedicarboxylic acid 4 keto 1 2 6 trimethyl di Me ester, P 1037¹
 C₁₂H₁₇NO₂ + H₂O Chondridin 3661¹
 C₁₂H₁₇N₂ Quinoxaline, 2 amino 5 6,7,8 tetrahydro 8 isopropyl 5 methyl 1254¹
 C₁₂H₁₇N₂O₂ 2 - Heptanone, 4 (2 furyl) semicarbazone 5424¹
 2 Hexanone, 4 - (2 furyl) - 5 methyl semicarbazone, 5424¹
 C₁₂H₁₇N₂O₂ Glutamic acid, β (β, β - dihydroxy α α dimethylpropyl) - β - methyl cyclic dialactone, semicarbazone, 3983¹
 C₁₂H₁₇F Phosphoric diethyl 2 5 - xylyl, and compd with H₂Cl₂ 2702¹
 C₁₂H₁₇ Compd, b 195-7°, from brown-coal tar oil 3463¹
 C₁₂H₁₇BrNO₂ β Bromoethyltrimethylammonium p toluenesulfonate, P 2814¹
 C₁₂H₁₇BrN₂O₂ Lysine, N^α, N^ε bis(α bromopropyl) 2974¹
 C₁₂H₁₇Br₂O₂ Suberic acid, α f-dibromo-α, γ dimethyl di Me ester 919¹
 C₁₂H₁₇CuN₂O₂ Oxamide, N, N'-diethyl-, Na Cu deriv 498¹
 C₁₂H₁₇Hg₂N₂ Truethylphenylammonium di mercuripentaiodide, 689¹
 C₁₂H₁₇NO (γ-Methoxypropyl)dimethylphenyl ammonium iodide, 1814¹
 (α¹ Methoxy 2 4 xylyl)trimethylammonium iodide 1814¹
 C₁₂H₁₇N₂ Ethylenediamine, N, N - diethyl N - phenyl P 2437¹
 Pmeloutrile, α-amyl, 684¹
 Spiro[cyclohexane - 1,3 (3 a) - indazole], 4 5 6,7 tetrahydro-, 702¹
 C₁₂H₁₇N₂O₂ 2 - Butanol, 1 - dimethylamino - 2 -

- methy] 2 pyrrolicarboxylate, HCl 1826¹
- Cu₂H₂N₂O₈ Guaiacol 4 [α β bis(methylamino)propyl and H₂SO₄] 4538¹
- H₂C₂O₄ 2 β-cymyl acetate, 1227²
- Pipicollic acid 1 (γ-cyanopropyl) Et ester, 3007²
- C₁₂H₂N₂O₈ Carbamic acid N, N' adpylthyl di Et ester 3964¹
- C₁₂H₂N₂O₈ Histidine, N leucyl 5180¹
- C₁₂H₂N₂O₈ Cyclopentanecarboxylic acid 3 5 diketo 1 2 2 trimethyl (P), disema carbazole 2990¹
- C₁₂H₂O₈ Carvomenthol 2-ethyl 4556¹
- Δ¹ α-β Menthaneacetaldehyde 4806¹
- C₁₂H₂O₈ Borneol methylxanthate 4252¹
- C₁₂H₂O₈ Borneol acetate compds 1234¹
- 2 Camphanecarbinol formate 507¹
- Et ester b₁ 102 5° of acid from pulegone 939¹
- Isoborneol acetate compds 1234¹
- 3 Menthaneacetic acid 4 hydroxy γ lactone 4228¹
- C₁₂H₂O₈ 6 Camphanecarboxylic acid hydrate Me ester 1823¹
- 3 β Menthaneacetic acid 1,4 dihydroxy lactone 4228¹
- Orthoacetic acid phenyl, Me di Et ester 2134¹
- C₁₂H₂O₈ Camphoean β propionic acid α carbonyl 2990¹
- C₁₂H₂O₈ Styraclol diacetone 5148¹
- C₁₂H₂O₈ m Dioxane 5 5 dioxanone 2 2 dimethyl diacetate 1802¹
- Fructose diacetone 2122¹
- Galactose diacetone 4853¹
- C₁₂H₂O₈ Cellulose 1221¹
- C₁₂H₂O₈ Fructose 3 sulfuric acid α di acetone and salt 2122¹
- C₁₂H₂O₈ β Amylovan 1495¹
- Difuctose anhydride 1223¹ 4233¹
- C₁₂H₂O₈ Aldobionic acid from gum arabic 2118¹
- C₁₂H₂Fb Plumbane trimethylphenyl 2698¹
- C₁₂H₂CoO₈ Cerium hydroacetate 5558¹
- C₁₂H₂OdO₈ Gadolinium hydroacetate 5858¹
- C₁₂H₂LaO₈ Lanthanum hydroacetate, 5858¹
- C₁₂H₂N Cyclohexylamine N (β methyl Δ¹ pentenylidene) 1800¹
- C₁₂H₂NO Acetamide V 3 carvomenthenyl 1234¹
- Δ¹ α-β Menthaneacetaldehyde oxime 4556¹
- C₁₂H₂N₂O₈ Pelargonic acid β hydroxy Et ester, isocyanate 490¹
- C₁₂H₂N₂O₈ Malonic acid isovalerylamino, di Et ester, 5395¹
- C₁₂H₂N₂O₈ Camphor, 4 methyl semicarbazone 3952¹
- β Homocamphor, semicarbazone, 2990¹
- C₁₂H₂N₂O₈ Cyclohexanepropionic acid, 3-keto 1 methyl, Me ester, semicarbazone 2957¹
- Cyclopentanecarboxylic acid 3 α α dimethylacetonyl, semicarbazone 1822¹
- semicarbazone, m 186-7° of keto acid from caryophyllene, 2958¹
- C₁₂H₂N₂O₈ Malonic acid acetoxydimethyl di Et ester, semicarbazone 5631¹
- C₁₂H₂O₈ Praseodymium hydroacetate 5858¹
- C₁₂H₂O₈ Yttrium hydroacetate 5858¹
- C₁₂H₂ Biocyclohexyl, 3663¹
- Cyclohexane, (cyclopentylmethyl) 2990¹
- Naphthalene, 2 ethyldecylhydro-, 4544¹
- C₁₂H₂AsO₈ Caproic acid, α, α' arsenobis-, P 2155¹
- C₁₂H₂AsBr Dicyclohexylgold bromide, 4220¹
- C₁₂H₂AsCl Dicyclohexylgold chloride, 4220¹
- C₁₂H₂BrNO Acetamide, α-bromo-N-3-β-methyl, 1233¹
- C₁₂H₂BrNO Glucosamine, N-(α bromononacaproyl), 1503¹
- C₁₂H₂ClNO Acetamide, α-chloro-N-3-β-methyl, 1233¹
- C₁₂H₂N₂ α Matrimidine, dihydro-, and chloro platinate, 5430¹
- Pyrazine, 2,2,5,5 tetraethyl-2,5-di-hydro-, 4271¹
- C₁₂H₂N₂O₈ Probosc 1 leucyl, Me ester, 77¹
- C₁₂H₂N₂O₈ Malonic acid, carbamidobutyl, di Et ester, 1493¹
- C₁₂H₂N₂O₈ Alanine, alanylalanylanil, 5892¹
- C₁₂H₂O₈ Ether, Δ¹-cyclohexenyl hexyl, 922¹
- Δ¹ 5 Heptadecanone, 7 methyl, 3312¹
- Δ¹ 3 Heptenone 2,2,5,6,6 pentamethyl, 3959¹
- 2 β Menthaneacetaldehyde, 4506¹
- Δ¹-4 Nonanone trimethyl, 3312¹, 3313¹
- C₁₂H₂O₈ Menthol methylxanthate, 4252¹
- C₁₂H₂O₈ Compd m 142-3°, from oxidation of cadinene 3123¹
- Cyclohexanol 2 butyl, acetate, 1806¹
- n Dodecanone acid, 5663¹
- Isodecanaphthone acid, Me ester, 5630¹
- C₁₂H₂O₈ Cyclohexanecarboxylic acid thiol cyclohexyl ester, 1812¹
- C₁₂H₂O₈ Cyclohexyl sulfite, 1797¹, 3964¹
- C₁₂H₂O₈ Malonic acid (α methylbutyl), di Et ester, 981¹
- Pimelic acid, α amyl, 684¹
- Sebacic acid mono-Et ester, 3544¹
- C₁₂H₂O₈ Dicosoprene disulfone, dimethyl, 2969¹
- C₁₂H₂O₈ Butyric acid β hydroxy α-methyl, Et ester β hydroxy-α methylbutyrate, 495¹
- Hexanone, dihydroxyhexanonyldihydroxy, 489¹
- Malonic acid, (β propoxyethyl), di Et ester 3958¹
- C₁₂H₂O₈ Galactose trimethylmonoacetate, 4553¹
- C₁₂H₂O₈ Styraclol, glucoside, 3317¹, 3318¹
- C₁₂H₂O₈ (See also Aldactose Cyllobiose Gynobiose Gynactose Lactose Maltose Sucrose)
- Isomaltose, 3401¹
- Mannose 4-galactono 1221¹ 4,29¹
- , 4 glucosido, 1221¹, 1223¹ 4,28¹
- Puranose, 4855¹
- C₁₂H₂O₈ Lactobionic acid, Co salt 4859¹
- Maltobionic acid Co salt, 4859¹
- Mannonic acid, 4 β galactosido, Co salt, 4529¹
- 4 β glucosido, Co salt 4,29¹
- C₁₂H₂N Laurocitrile 912¹
- C₁₂H₂NO Acetamide, N-3-β-methyl, 1233¹
- Δ¹ 3 Heptenone 2,2,5,6,6 pentamethyl, oxime 3959¹
- 2 β Menthaneacetaldehyde, oxime, 4806¹
- C₁₂H₂NO₈ Acetamide, α (3 β-methoxyloxy), 5672¹
- C₁₂H₂NO₈ Caproic acid, α (α-acetamidobutyl) Et ester, 4294¹

- Pimelamic acid, amyl, 681^a
 C₁₃H₂₁N₂O₂ Malonamide, α-pelargonylamino-, 5398^a
 C₁₃H₂₁ Heptane, 2,2,6,6-tetramethyl-4-methyl-ene-, 910^a
 3 - Heptene, 2,2,4,6,6 - pentamethyl 910^a
 2 Pentene, 3 - *tert* butyl 2,4,4 tri methyl, 910^a
 Trisobutylene, 5603^a
 C₁₃H₂₁ Ag₂CoN₂Se₂, 1754^a
 C₁₃H₂₁Br₂ Dodecane 1,5-dibromo- 684^a
 C₁₃H₂₁Br₂Te₂ + H₂O Tellurophene, 1,1 (1,4 - butylene)bis[1 bromo - 1,1,2,3,4,5-hexahydro-, 1521^a
 C₁₃H₂₁Br₂Se₂ Selenepene dimer, bromide 1521^a
 C₁₃H₂₁CoH₂N₂Se₂ 1754^a
 C₁₃H₂₁INO Lupinus Me ether, methiodide 3007^a
 C₁₃H₂₁I₂Te₂ Tellurophene 1,1' (1,4 butylene) bis[1,2,3,4,5 hexahydro 1 iodo 1,521^a
 C₁₃H₂₁N₂ [4,4 Bicyclohexylamine] and di-HCl 2990^a
 Lupanine, α-dimethylamino-, 3007^a
 Piperidine 1,1-ethylenbis-, 4843^a
 C₁₃H₂₁N₂O₂ Pimelamide, α amyl 684^a
 C₁₃H₂₁N₂O₂ Lysine, V^a V^a dialanyl 2074^a
 C₁₃H₂₁O Cyclohexanol, dipropyl 4234^a
 Pyran 2 heptyltetrahydro 684^a
 C₁₃H₂₁O₂ (See also Lauric acid)
 3 Heptanone 5 hydroxy 2,2,5,6,6 pentamethyl 3909^a
 Pelargonic acid β methyl Et ester, 3627^a
 C₁₃H₂₁O₂ Lauric acid α mercapto-, 682^a
 C₁₃H₂₁O₂ 2 Pentanone, 1 amoxy 5 ethoxy, 4221^a
 C₁₃H₂₁Se₂ Selenepene dimer 1521^a
 C₁₃H₂₁AlO₂ Aluminum-dioxane acid 5862^a
 C₁₃H₂₁N Cyclohexylamide, N β methylamyl, and HCl, 1809^a
 C₁₃H₂₁NO₂ Butyric acid β (butylethylamine) Et ester, 2117^a
 Caprylic acid β ethylamine Et ester, and HCl 2117^a
 Lauric acid α amino- 4830^a
 Undecyric acid α methylamino- 489^a
 C₁₃H₂₁ Dodecane, 2040^a, 2067^a, 4223^a, 5890^a
 C₁₃H₂₁As₂Br₂ [1,1 Bismarsidine] dimethobromide, 3000^a
 C₁₃H₂₁As₂Br₂O₂ Arsenidine, 1,1-dioxybis-, di methobromide 3000^a
 C₁₃H₂₁Br₂TI Thallium di α hexyl bromide, 4484^a
 C₁₃H₂₁Cl₂TI Thallium di α hexyl chloride 4484^a
 C₁₃H₂₁FI₂TI Thallium di α hexyl fluoride 4484^a
 C₁₃H₂₁II₂TI Thallium di α hexyl iodide, 4484^a
 C₁₃H₂₁NO₂TI Thallium di α hexyl nitrate 4484^a
 C₁₃H₂₁N₂Si Pseudourea, γ,γ-decamethylenbis-[thio HCl, 5665^a
 C₁₃H₂₁N₂O₂ Arginine (α amino β guanido-valeryl), 1269^a
 C₁₃H₂₁O Dodecyl alcohol, 1797^a, 3562^a, 4223^a
 C₁₃H₂₁O₂ 1,12 Dodecanediol 684^a
 Ethane 3-dioamoxy 4849^a
 C₁₃H₂₁O₂ Valeraldehyde α hydroxy α propyl, di Et acetal, 2113^a
 C₁₃H₂₁AlO₂ Aluminum butoxide P 522^a
 C₁₃H₂₁As Arsenic, trisobutyl, 681^a
 C₁₃H₂₁AsBr₂ Arsenic tributyl dibromide 1483^a
 Arsenic trisobutyl dibromide 1483^a
 C₁₃H₂₁AsCl₂ Arsenic tributyl, dichloride, 1483^a
 Arsenic trisobutyl, dichloride, 1483^a
- C₁₃H₂₁AsCl₂Hg Arsenic, tributyl, HgCl₂ deriv., 1485^a
 Arsenic trisobutyl HgCl₂ deriv., 1483^a
 C₁₃H₂₁As₂ Arsenic tributyl, duodide 1483^a
 Arsenic, trisobutyl, duodide 1483^a
 C₁₃H₂₁AsO Arsenic tributyl, oxide 1483^a
 C₁₃H₂₁As₂ Arsenic trisobutyl, sulfide, 1483^a
 C₁₃H₂₁Bi Bismuthine tributyl, 2970^a
 C₁₃H₂₁Br₂N₂ s Triazine, hexahydro 1,3,5 tripropyl dibromide 4523^a
 C₁₃H₂₁I₂N₂ s Triazine hexahydro - 1,3,5 tripropyl duodide 4523^a
 C₁₃H₂₁N Isoheptylamine, V ethyl β isopropyl 1809^a
 C₁₃H₂₁NO₂ 2 Butanol 1,1 ethylaminobis (3 methyl) and HCl 2600^a
 C₁₃H₂₁N₂ s Triazine, hexahydro 1,3,5 tri propyl 4023^a
 C₁₃H₂₁O₂P Butanephosphonic acid di Bu ester 2414
 Butyl phosphite 2414^a
 C₁₃H₂₁O₂P Butyl phosphate P 3014^a
 C₁₃H₂₁O₂P Phosphoric acid β butoxyethyl bis(β methoxyethyl) ester P 5170^a
 Phosphoric acid tris(β ethoxyethyl) ester P 366^a
 C₁₃H₂₁ClNO₂ Tetrapropylammonium perchlorate 2610^a
 C₁₃H₂₁ClO₂S₂ 5 β Hydroxyethyl S [β (β hydroxyethylmercapto)ethyl] S S ethylenbis(β hydroxyethylsulfonium chloride) 2114^a
 1,1-bis(β hydroxyethyl)sulfonium chloride 2114^a
 C₁₃H₂₁Cr₂N₂Si₂Zn 3925^a
 C₁₃H₂₁IN Tetra n propylammoniumiodide 2626^a
 C₁₃H₂₁N₂O₂ s Propanediamine N, N, N, N - tetraethyl 2 methoxy and chloro-plataste 539^a
 C₁₃H₂₁N₂ Dipropylamine V V dithiobis 4834^a
 C₁₃H₂₁N₂ + H₂O Polytrimethylenediamine 3617^a
 C₁₃H₂₁N₂ See Synthesis
 C₁₃H₂₁Si Silicane tetrapropyl 1485^a
 C₁₃H₂₁Cl₂N₂O₂ Ft Choline glycolicholine chloro-plataste 3315^a
 C₁₃H₂₁HgI₂ S₂ Triethylsulfonium mercuritetrastate 690^a
 C₁₃H₂₁Br₂N₂Ni + H₂O 1177^a
 C₁₃H₂₁Br₂CoN₂ 1177^a
 C₁₃H₂₁Cl₂N₂Ni + H₂O 1177^a
 C₁₃H₂₁Co₂N₂ + 2H₂O 1177^a
 C₁₃H₂₁Ir₂N₂Ni + 4H₂O 1177^a
 C₁₃H₂₁N₂NaO₂ + H₂O 1177^a
 C₁₃H₂₁N₂Na₂N₂O₂ Oxamide N ethyl Na Na deriv 49^a
 C₁₃H₂₁Br₂Cl₂Co₂N₂ 0108^a
 C₁₃H₂₁Cl₂Co₂Hg N₂ 5108^a
 C₁₃H₂₁N₂O₂Sb₂W₂ + 31H₂O 469^a
 C₁₃O₂ Melitic trihydride 9^a
 C₁₃H₂₁N₂O₂ Benzoic acid, 2,4,6-trinitro-, picryl ester 4245^a
 C₁₃H₂₁Br₂ClO₂ Phenol, 2,5 dibromo - 3,4,6 trichloro, benzoate 4537^a
 C₁₃H₂₁Br₂NO₂ s Fluorenone, 2,7 - dibromo-nitro-, 509^a
 C₁₃H₂₁N₂O₂ Benzoic acid, 2,4,6 trinitro, 2,4-dinitrophenyl ester, 4245^a
 C₁₃H₂₁Br₂ClO₂ Phenol, 2 - bromo 3,4,6 trichloro, benzoate, 4537^a
 C₁₃H₂₁Br₂N₂O₂ Benzamide, 2',4,6 trinitro-dinitro-, 4868^a

- C₁₂H₅Br₂N₂ Carbothamide bis(dibromophenyl), 2 01¹
- C₁₂H₅ClNO₃ 2 Fluorenesulfonyl chloride, 9 keto nitro- 510⁹
- C₁₂H₅Cl₂O₂ 2,7 Fluorenedisulfonyl chloride 9 keto 510⁹
- C₁₂H₅Cl₂N₂O₂ Benzaldehyde, 2,4,6 trimetro, (2,4,6 trichlorophenyl)hydrazone, 5406⁴
- C₁₂H₅Cl₂N₂O₂ Benzoyl chloride nitro- 2,3,4,6-tetrachlorophenylhydrazone 5667⁴
- C₁₂H₅FeK₂N₂O₂ 2354¹
- C₁₂H₅N₂O₂ Benzoic acid 2,4,6-trimetro-*p*-nitrophenyl ester 4245⁴
- C₁₂H₅AsCl₂O₂ 9 Fluorenone, 2 dichloroarsyl 3953¹
- C₁₂H₅BrI₂O₂ Phenol 4 bromo 2,6 diodo, benzoate 39 8¹
- C₁₂H₅BrO₂S Thioxanthene 4 bromo 1,2 dihydroxy 272¹
- C₁₂H₅Br₂Cl Fluorene 2,7 dibromo 9 chloro, 110⁹
- C₁₂H₅Br₂NO₂ 9 Fluorenone amine 2,7 dibromo- and HCl, 509¹
- C₁₂H₅Br₂NO₂ Fluorene 2,7-dibromonitro- 509¹
- C₁₂H₅Br₂N₂O₂ Benzamide 2,4,6 tribromo nitro- 4565¹
- C₁₂H₅ClI₂O₂ Phenol, 2 chloro 4,6 diodo, benzoate 397⁸
- C₁₂H₅ClO₂ 9 Fluorenone 2 chloro- 510⁹
- C₁₂H₅ClI₂O₂ Phenol 2,4 dichloro 6 iodo, benzoate 1,04¹
- C₁₂H₅Cl₂N₂S Benzothiazole 4 chloro 1 (o-chlorophenyl) 4265⁹
- C₁₂H₅Cl₂N₂O₂ Benzaldehyde 2,4 dimetro 2,4,6 trichlorophenyl hydrazone, 5406⁴
- C₁₂H₅Cl₂O₂ Phenol, trichloro- benzoate 453¹
- C₁₂H₅Cl₂O₂ 2,7 Fluorenetrisulfonyl chloride, 510⁹
- C₁₂H₅Cl₂N₂O₂ Benzaldehyde nitro- 2,3,4,6 tetrachlorophenylhydrazone 5667⁴
- Benzoyl chloride, nitro-, 2,4,5-trichlorophenylhydrazone, 5667⁴
- C₁₂H₅ClINO₂ Carbamic acid, 2,4 dichloro 4 chloro 2 iodophenyl ester di chloride 1,04¹
- C₁₂H₅FeK₂N₂O₂ 2354¹
- C₁₂H₅NO₂ 9 Fluorenone 4 nitro- 509¹
- C₁₂H₅NO₂ 9 Fluorenone 2,7 dihydroxy nitro-, 510⁹
- 2,3,4,9, 8,8 naphthazoletetrono, 1 methyl 182¹
- C₁₂H₅NO₂S 2 Fluorenesulfonic acid, 9 keto 7 nitro-, K salt 510⁹
- C₁₂H₅N₂O₂ Benzimidazole[2,1-f-pyrido[3,2-g]isopyrrol-3-one-, 4269¹
- C₁₂H₅N₂O₂S Benzothiazole, 1 (dimetaphenylmercapto), P 966¹
- C₁₂H₅N₂O₂ Benzoic acid, 2,4,6-trimetro-, Ph ester 4245⁴
- C₁₂H₅AgClO₂S Xanthidol, 9 - mercapto -, 5 Ag deriv., perchlorate, 2413¹
- C₁₂H₅AsNO₂S 2 Fluorenearsonic acid, 9 keto- 7 nitro-, and Na salt 3953¹
- C₁₂H₅Br₂Cl Fluorene, 2 bromo-2-chloro-, 509¹
- C₁₂H₅BrCl₂N₂S Benzothiazole, 5-bromo-1-*p*-chloroamino-, 104¹
- C₁₂H₅BrI₂O₂ Phenol 4-bromo 2-iodo-, benzoate, 397⁸
- C₁₂H₅Br₂N₂O₂S Benzothiazole, 5-bromo-1-*p*-nitroamino-, 104¹
- C₁₂H₅Br₂N₂O₂ Ether, *p*-bromobenzyl peryl 539¹
- C₁₂H₅Br₂N₂O₂ Benzaldehyde, bromo 3 hydroxy dimetro -, *p*-nitrophenylhydrazone, 4540¹
- C₁₂H₅Br₂N₂O₂ Carbothamide, bis(bromophenyl), 2701¹
- C₁₂H₅Br₂N₂O₂ Benzamide, 2',6'-dibromo-4'-nitro-, 4565¹
- C₁₂H₅Br₂N₂S Benzothiazole, 1 aminodibromo-, P 966¹
- C₁₂H₅Br₂N₂O₂ Benzaldehyde, dibromo-3-hydroxy-, *p*-nitrophenylhydrazone, 4540¹
- C₁₂H₅Br₂NO₂ Benzamide, 2',4',6' tribromo-, 4565¹
- C₁₂H₅Br₂N₂S Carbothamide, tetrabromothio-, 2701¹
- C₁₂H₅Cl₂O₂ Phenol, 4-chloro 2-iodo-, benzoate, 1504¹
- C₁₂H₅ClIN Benzoquinone, chloro-, 103¹, 4269¹
- C₁₂H₅ClNO₂ Benzoyl chloride, *p*-(*p*-nitrophenoxy), 2703¹
- Nicotinic acid, 2-(2-carboxy 6-chlorophenyl), 103¹
- C₁₂H₅ClNO₂S 2-Fluorenesulfonyl chloride, 7 nitro-, 510⁹
- C₁₂H₅ClN₂S Benzothiazole, 4 chloro-1-phenyl, 931¹, 4265¹
- C₁₂H₅Cl₂HgOS Xantbene, 9-chloro-9 (chloromercanthio), 2413¹
- C₁₂H₅Cl₂INO₂ Carbamic acid, 2,4 dichloro-6-iodophenyl ester, 1,04¹
- Carbamic acid, 2,4-dichloro-, iodophenyl ester, 1504¹, 4245¹
- C₁₂H₅Cl₂N₂O₂ Aniline, 2,5 dichloro-*N*-*m*-nitrobenzyl, 1230¹
- C₁₂H₅Cl₂O₂ Benzophenone, dichloro-, 924¹, 4565¹
- C₁₂H₅Cl₂O₂S 2,7 Fluorenedisulfonyl chloride, 510⁹
- C₁₂H₅Cl₂O₂ Phenol, 4-chloro-2-iodo-, dichloride, benzoate, 1504¹
- C₁₂H₅Cl₂NO₂ Anthranic acid, *N*-(3,4,5-trichlorophenyl), 2146¹
- Carbamic acid, 2,4-dichloro-, *p*-chlorophenyl ester, 1,04¹
- C₁₂H₅Cl₂N₂O₂ Benzaldehyde, nitro-, 2,4,5-trichlorophenylhydrazone, 5667⁴
- C₁₂H₅ClINO₂ Carbamic acid, 2,4 dichloro-*p*-iodophenyl ester, dichloride, 1504¹
- C₁₂H₅Cl₂I₂O₂ Carbamic acid, bis(dichlorophenyl) ester tetrachloride, 1504¹, 4245¹
- C₁₂H₅Cl₂N₂O₂ Benzamide, nitro-, 2,3,4,6-tetrachlorophenylhydrazone, 5667⁴
- C₁₂H₅INO₂ Fluorene, 9-iodo-9 nitro-, 925¹
- C₁₂H₅I₂O₂ Carbamic acid, bis(iodophenyl) ester, 1504¹, 4245¹
- C₁₂H₅KNO₂ Fluorene, 9-monitro-, K salt, 924¹
- C₁₂H₅N₂O₂ Phthalimide, *N* pyridyl, 3999¹
- C₁₂H₅N₂O₂ Fluorene, dimetro-, 509¹
- C₁₂H₅N₂O₂ Phenol, 3,5 dimetrobzenzoate 2982¹
- C₁₂H₅N₂O₂S 1,3,6-Carbazotrisulfonic acid, 8-cyano-, P 966¹
- C₁₂H₅N₂S Thioxanthene 9-diazo-, 2413¹
- C₁₂H₅N₂O₂ Aniline 2,4,6-trinitrobenzyl-, 397⁸
- C₁₂H₅O₂ 9 Fluorenone P 1260¹ 4254¹, 4256¹
- C₁₂H₅O₂S Xanthone, 9-thio-, 1239¹
- C₁₂H₅O₂ (See also Xanthone)
- aphthopyrone, 2146¹
- C₁₂H₅O₂ 1(3,2) Benzonaaphthenedone, 4-hydroxy, 2146¹
- 9 Fluorenone, 2,7 dihydroxy -, 510⁹
- C₁₂H₅O₂S 2 Fluorenesulfonic acid, 9 keto-, K salt, 510⁹

- C₁₂H₈O₄ Naphthalenetetracarboxylic acid, 584¹
 C₁₂H₈O₄S₂ 2,7 - Fluorenedisulfonic acid, 9 - keto-, *ds A salt*, 510¹
 C₁₂H₈O₄S₂ 2,7 - Fluorenetrisulfonic acid, 9 keto-, *K salt*, 510¹
 C₁₂H₈AsCl₂ Fluorene, 2 dichloroarsyl, 3953¹
 C₁₂H₈AsN₃ Phenarsazine, 1-cyano-1,6-dihydro-, 109¹
 C₁₂H₈AsN₃S Phenarsazine, 1,6-dihydro-1 thio cyano-, 109¹
 C₁₂H₈AsO₂ 2 Fluorenearsonic acid, 9-keto-, 1235¹, 3983¹
 C₁₂H₈Br Fluorene, 2 bromo-, 509¹
 C₁₂H₈BrINO Benzophenone, 4 - amino - 3 bromo-5-iodo-, 5614¹
 C₁₂H₈BrN₂O₂ Benzaldehyde, bromohydroxy nitro-, *p*-nitrophenylhydrazone, 4540¹, 2
 C₁₂H₈BrO₂ Acrylophenone, *p*- bromo *p*- 2 furyl-, 506¹
 Benzoic acid, 5-bromo-2 phenyl, 511¹
 C₁₂H₈BrN Fluorylamine, 2,7-dibromo-, 509¹
 C₁₂H₈BrNO Benzamide, 2,5-dibromo-, 4865¹
 Benzophenone, 4 - amino 3,5 dibromo, 5014¹
 9 Fluorenyl amino 2,7-dibromo-, 509¹
 Phenol, 4 benzamino - 2,5 dibromo, 285¹
 C₁₂H₈BrO₂S Ether, 4 bromo 2 (2,5 dibromo-phenylmercapto)phenyl methyl, 3335¹
 C₁₂H₈BrO₂ 2 - Naphthalenecarbanol, 3,4,6 tribromo-, acetate, 916¹
 C₁₂H₈Cl Fluorene 2 chloro-, 509¹
 C₁₂H₈ClINO₂ Phenol, 4 chloro - 2 - iodo -, carbanilate, 1504¹
 C₁₂H₈ClN₂O₂ Anisole, 3 chloro 4 nitroso -, picrate, 4539¹
 Phenol, 3 - chloro 4 - nitroso -, compd with 2,4,6 trinitro-*m*-cresol 5659¹
 C₁₂H₈ClO Benzophenone, *p*-chloro-, 4256¹
 9 Fluorenyl, 2-chloro-, 510¹
 1 α -Naphthindanone 5-chloro-, P 1260¹
 C₁₂H₈Cl₂IO Ether benzyl 2,4-dichloro-6-iodo phenyl, 1504¹
 C₁₂H₈Cl₂IO₂ Phenol o-iodo-, dichloride benzoate 1504¹
 C₁₂H₈Cl₂NO Benzophenone, 2,5-dichloro-, oxime 4880¹
 C₁₂H₈Cl₂N₂ Anthranic acid, *N* [3,4(and 3,5) dichlorophenyl], 2146¹
 C₁₂H₈Cl₂N₂O₂ Benzamide, o chloro - *N* (o chlorophenylsulfonyl), 1812¹
 C₁₂H₈Cl₂NO₂ Metanilic acid, 6-benzyl 2,5-dichloro- P 4716¹
 C₁₂H₈Cl₂N₂S Benzothiazolone, 4 - chloro - 1 - (o - chlorophenyl), 4265¹
 C₁₂H₈Cl₂N₂O₂ Benzaldehyde, nitro-, 2,5-dichlorophenylhydrazone, 5667¹
 C₁₂H₈Cl₂N₂ Benzaldehyde (2,4,6-trichlorophenyl)hydrazone, 5406¹
 C₁₂H₈Cl₂N₂O Benzoc acid, 8 (2,4,6-trichlorophenyl)hydrazide, 5406¹
 Salicylaldehyde, (2,4,6 - trichlorophenyl) hydrazone 5406¹
 C₁₂H₈Cl₂N₂O₂ Benzamide, nitro-, 2,4,5-trichlorophenylhydrazone, 5667¹
 C₁₂H₈Cl₂IO Ether benzyl 2,4-dichloro-6-iodo-phenyl, dichloride, 1504¹
 C₁₂H₈FO Benzophenone, o-fluoro-, 4239¹
 C₁₂H₈I Fluorene, 2-iodo-, 509¹
 C₁₂H₈IO₂ Phenol, o-iodo-, benzoate, 1504¹
 C₁₂H₈KN₂O Nicotinonitrile, hydroxymethyl-phenyl, *K* deriv, 2999¹
 C₁₂H₈N (See also *Acridines*)
 7,8-Benzquinoline, 4872¹
 C₁₂H₈N₂O Acetonitrile, 2 naphthoyl-, 505¹
 5(10) Acridone, 3346¹
 Benzoquinoline, 2*27*2
 9 Fluorenone, 4-amino- 509¹
 Isocyanic acid *p* phenylphenyl ester, 4202¹
 9(10) Phenanthridone, P 603¹
 C₁₂H₈N₂O₂ Thiocyanic acid, 2 naphthoyl(methyl ester) 505¹
 C₁₂H₈N₂O₂ 7,8 Benzquinoline 2,4(1,3) diene, P 966¹
 Fluorene, 8 nitro-, 824¹
 C₁₂H₈N₂O₂ Carbazolecarboxylic acid hydroxy P 966¹, 2
 4 9 $\beta\beta$ Naphthazolidene, 2 hydroxy - 1 methyl 1824¹
 C₁₂H₈N₂O₂ Benzaldehyde, *p*-(nitrophenoxy) 2705¹
 Nicotinic acid 2 (o carboxyphenyl) 4872¹
 C₁₂H₈N₂O₂S 2 Fluorenesulfonic acid 7 amino 9 keto-, 511¹
 2 Fluorenesulfonic acid, 9 keto-, oxime *K salt* 510¹
 C₁₂H₈N₂O₂ Benzoic acid, *p*-(*p* nitrophenoxy), 2705¹
 C₁₂H₈N₂O₂S 2 Fluorenesulfonic acid, 7 nitro, and salt 510¹
 C₁₂H₈N₂O₂S 2,7 Fluorenedisulfonic acid 9 keto-, oxime 510¹
 C₁₂H₈N₂O₂S 2,7 Fluorenedisulfonic acid, nitro-, salt 509¹
 C₁₂H₈N₂S Benzothiazole 1 mercapto 5 - phenyl 2999¹
 C₁₂H₈N₂NaO Acetamide α cyano *N* naphthyl, *Na* deriv, 3632¹
 Nicotinonitrile hydroxymethylphenyl, *Na* deriv, 2999¹
 C₁₂H₈N₂ Azobenzene, *p* isocyanato- 2423¹
 C₁₂H₈N₂O₂ Isoxazole 4,5 (phenylaminoethyl ene)bis- 5168¹
 C₁₂H₈N₂O₂S Benzothiazole, 1 *p* nitroanilino, 104¹
 C₁₂H₈N₂O₂ Phenol, 2,6 dinitro 4 (3-nitro *p*-amyl), 4873¹
 C₁₂H₈N₂O₂S Salicylic acid, 5 (2,4 - dinitroanilino) 6 sulfo, *Na* salt, 3630¹, 5034¹
 C₁₂H₈N₂O₂ Benzaldehyde, *p* nitro -, 2,4 di nitrophenylhydrazone, 3320¹
 C₁₂H₈ See Fluorene
 C₁₂H₈AsCl₂ Acridarsine, 5 - chloro 5,10 dihydro, 2739¹
 C₁₂H₈AsCl₂N Phenarsazone, dichlorodihydro-methyl, 2147¹, 2
 C₁₂H₈AsN₃O₂ Phenarsazine, 1,6 dihydro 1 hydroxy formate, 110¹
 C₁₂H₈AsNO₂ 2 Fluorenearsonic acid, 7 amino 9 keto- and *Na* salt, 3983¹
 C₁₂H₈BrClN₂S Carbanilide, *p*- bromo *p*' chlorothio-, 104¹
 C₁₂H₈BrN₂O₂ Benzamide, *m*-bromo-*o*' hydroxy, 1818¹
 C₁₂H₈BrN₂O₂ 2 Naphthalenecetamide, 3 bromo-1,4 dihydro-1,4-diketo *N*-methyl, 1824¹
 C₁₂H₈BrN₂O₂ Benzaldehyde, *p*- bromo, *p* nitrophenylhydrazone, 4243¹
 C₁₂H₈BrN₂O₂S Carbamide, *p*-bromo-*p*' nitrothio-, 104¹
 C₁₂H₈BrO₂ 2 - Naphthalenecarbanol, 3,6 - dibromo-, acetate, 916¹

- C₁₃H₁₀Br₂O₂ Mesitylene, 2,6-bis(tribromoacetyl) 5404¹
 C₁₃H₁₀ClIO Ether benzyl chlorododophenyl, 1504¹ 4245¹
 C₁₃H₁₀ClNOS Benzamide, 3-chloro-2-mercapto- 931¹
 C₁₃H₁₀ClNO₂ Benzamide, m-chloro-o'-hydroxy 1818¹
 C₁₃H₁₀ClNO₂ Benzamide 4-chloro-3,5-dihydroxy P 5298¹
 Carbamic acid 2-chloro-4-phenoxy phenylester P 2314¹
 Ether benzyl 4-chloro-2-nitrophenyl, 1504¹
 C₁₃H₁₀ClN₂S Benzothiazolone, 4-chloro-1-phenyl 426¹
 C₁₃H₁₀ClN₂O Picolinic acid 4-chloro, benzaldehyde 2429¹
 C₁₃H₁₀ClN₂O₂ Benzaldehyde p-chloro, p-nitrophenylhydrazine 4243¹
 C₁₃H₁₀ClN₂O₂S Benzenesulfonamide 4-chloro-N-methyl-3-o-dimetro- P 1100¹
 C₁₃H₁₀Cl₂HgO p-Cresol α-phenyl, bis(chloromercuri) deriv 4204¹
 C₁₃H₁₀Cl₂O Cresol dichloro-α-phenyl 3630¹
 Ether benzyl 2,6-dichlorophenyl 3635¹
 C₁₃H₁₀Cl₂O₂ 1-Naphtholsulfonyl chloride, ethylcarbonate 4257¹
 C₁₃H₁₀ClIO Ether benzyl chlorododophenyl, dichloride 1504¹ 4245¹
 C₁₃H₁₀Cl₂O₂ Mesitylene, 2,6-bis(trichloroacetyl) 5404¹
 C₁₃H₁₀FNO Benzophenone o-fluoro-, oxime 4239¹
 C₁₃H₁₀FNO₂ Anisole, 4-(p-fluorophenyl)-3-nitro- 4253¹
 C₁₃H₁₀HgN₂O₂ Acetamide α-cyano α (hydroxymercuri) V naphthyl, 3619¹
 C₁₃H₁₀HgO₂S Benzoic acid o-(phenylmercuri) mercapto-, 1821¹, 4907¹
 C₁₃H₁₀HgO₂ Phenol, anhydromercuri(hydroxymercuri) p-benzyl, 4204¹
 C₁₃H₁₀INO₂ Carbamic acid p-iodophenyl ester 4245¹
 Methane iododododophenyl 925¹
 Phenol o-iodo-carbamate 1504¹
 C₁₃H₁₀IN₂O Picolinic acid 4-iodo-benzaldehyde 2429¹
 C₁₃H₁₀IN₂O₂ Benzaldehyde p-iodo, p-nitrophenylhydrazine 4243¹
 C₁₃H₁₀N₂ Acridine, 5-amino- 4271¹
 Methane diazododophenyl, 931¹, 1939¹
 p-nitro-naphthol 1,3-diamine, P 4717¹
 C₁₃H₁₀N₂O Diphenylurea, 1504¹
 9-Fluorenone 2,5-diamino, 510¹
 Nicotinamide 1,2-dihydro-2-keto-methylphenyl-, 1529¹, 2145¹
 —, hydroxymethylphenyl-, 2999¹
 Vanthone, hydrazine, 2413¹
 C₁₃H₁₀N₂O₂ Acenaphthene, formamido-nitro-, 3988¹
 Anthranic acid, N (pyridylcarbonyl), 3000¹
 Benzophenone, p-nitro-, oxime, 5673¹
 Salicylic acid phenylazo- P 1684¹
 C₁₃H₁₀N₂O₂ Benzamide, p-(p-nitrophenyl), 2700¹
 C₁₃H₁₀N₂O₂ Methane, bis(nitrophenyl)-, 5393¹
 Phenol methylmethylnitro (7), 5399¹
 C₁₃H₁₀N₂O₂S Acridinesulfonic acid, 3-amino-and dipotassium salt, 4271¹
 C₁₃H₁₀N₂S Benzothiazole 1-amino-5-phenyl-, 2999¹
 Benzothiazole, 1-amino-, 104¹, P 968¹
 Thioxanthone, hydrazine, 2414¹
 C₁₃H₁₀N₂O₂ Benzaldehyde, p-nitro-, p-nitrophenylhydrazine, 4243¹
 C₁₃H₁₀N₂O₂ Benzaldehyde, m-hydroxy-, 2,4-dinitrophenylhydrazine, 3320¹
 Carbamide, dimetro-, 1503¹
 C₁₃H₁₀N₂O₂ 1-Naphthalenecarboxylic acid, 2,4,5-trimetro-, Et ester, 4876¹
 C₁₃H₁₀N₂S 1,2,3-Benzotriazole-1-carboxamide, thio-, 4266¹
 C₁₃H₁₀N₂NaO₂S Benzenesulfonamide, 4-formyl-3-nitro-, Na deriv, p-nitrophenylhydrazine, 928¹
 C₁₃H₁₀N₂ Methane, diphenylbistriazo-, 4543¹, 5847¹
 C₁₃H₁₀O (See also Benzophenone)
 1-o-Naphthol, 104¹, P 968¹
 8-Naphthofuran, 2-methyl-, 4583¹
 C₁₃H₁₀O₂ Acrylphenone, β-2-furyl, 506¹, 1530¹
 Xanthidol 515¹, 2143¹
 C₁₃H₁₀O₂ (See also Solol)
 Benzophenone, 2,4-dihydroxy, 4865¹
 Hydroquinone, monobenzoate, 1232¹
 2-Naphthaldehyde, 3-hydroxy-, acetate, 2146¹
 1-Naphthol, 4-acetyl-, P 1684¹
 Quinone, 2-p-aminyl-, 291¹
 C₁₃H₁₀O₂S 2-Fluorenesulfonic acid, salts, 510¹
 C₁₃H₁₀O₂S Salicylic acid 5-(phenylsulfonyl) 2127¹
 C₁₃H₁₀O₂ Maclicin, 4569¹
 C₁₃H₁₀O₂S 2,7-Fluorenedisulfonic acid, 510¹
 C₁₃H₁₀O₂S 2,7-Fluorenedisulfonic acid, salts, 510¹
 C₁₃H₁₀S Benzophenone, thio-, 1239¹, 2137¹
 C₁₃H₁₀AsO₂ Acridarsonic acid, 2730¹
 C₁₃H₁₀AsO₂ 2-Fluorenearsonic acid, 1235¹, 3953¹
 C₁₃H₁₀BrN₂O₂ Benzylamine p-chloro-, picrate, 4243¹
 C₁₃H₁₀BrO₂ Benzene, 1-(p-bromophenoxy) 4-methoxy-, 1816¹
 2-Naphthalenecarbinol, 3-bromo-, acetate, 946¹
 C₁₃H₁₀BrN₂S Semicarbazide, 4-(dibromophenyl)-1-phenylthio-, 2701¹
 C₁₃H₁₀Cl Methane, chlorododophenyl-, 5830¹
 C₁₃H₁₀ClN₂O₂ Benzylamine p-chloro-, picrate, 4243¹
 C₁₃H₁₀ClO₂ Phenol, m-(p-chlorobenzoyloxy)-, 5408¹
 C₁₃H₁₀Cl₂O Ether, benzyl p-iodophenyl, dichloride, 4245¹
 C₁₃H₁₀Cl₂O₂S p-Toluenesulfonic acid (iodophenyl) ester, dichloride, 1504¹ 4245¹
 C₁₃H₁₀Cl₂N Benzylamine α-dichloro-phenyl-, -HCl, 3329¹
 Diphenylamine 2,4-dichloro-2-methyl-, 2147¹
 C₁₃H₁₀Cl₂O₂ 1,3-Benzodioxan 6-carboxylic acid, 4-(chloromethyl)-2-(dichloromethyl)-, Et ester, 5428¹
 C₁₃H₁₀IN₂O₂ Benzylamine, p-iodo-, picrate, 4243¹
 C₁₃H₁₀IO Ether, benzyl iodophenyl, 1504¹, 4245¹
 C₁₃H₁₀IO₂ 2-Naphthol, 3-iodo-, Et ester 2140¹
 C₁₃H₁₀IO₂S p-Toluenesulfonic acid, (iodophenyl) ester 1504¹, 4245¹
 C₁₃H₁₀N Amine, N-benzyl-, 93¹, 4246¹
 C₁₃H₁₀N₂ (See also Benzazulene)
 Acenaphthene, 1-formamido-, 3988¹

- Benzophenone, oxime, 1506⁹, 2329⁴, 5140⁹
 Cresol, α -mimo- α -phenyl, 1231¹
 9-Fluorenone, 4 amino-, 509⁴, 510⁴
 Quinonamine, *N* bearyl, 502⁴
 C₁₁H₁₁NO₃ 1(2) - α - Naphthothiazolone, 2 ethyl, 1516⁴
 C₁₁H₁₁NO₃ Acenaphthenecarboxylic acid, amino-, P 4593¹
 Benzenesulfonic acid, β hydroxyphenyl ester 1231¹
 Benzophenone, α -hydroxy-, oxime, 2712⁷
 Homosodictamine, 297⁴
 Indophenol, 2 methyl, 1552⁹ 2985¹
 2 Pyrrolealdehyde, 1 p -tolyl, 2997⁴
 C₁₁H₁₁NO₃ Ether 6 nitro m -tolyl phenyl P 302⁴
 2 Naphthaldehyde, 3 hydroxy, acetate oxime, 2146⁴
 Salicylic acid 4 amino-(?), P 1684¹
 C₁₁H₁₁NO₃ 2 Fluoresulfonic acid, 7 amino- and salts, 510⁹
 C₁₁H₁₁NO₃ Benzene 1 methoxy 4 (β nitro-phenoxy) 1816⁴
 1 phenol, β (3 nitro β amyl), 4573¹
 2 Pyrrolecarboxylic acid 1 - acetyl 3 hydroxy δ -phenyl 1527¹
 C₁₁H₁₁NO₃ Benzosulfonate 1,2 dihydro 1 (phenylsulfonyl) 928⁹
 C₁₁H₁₁NO₃ 2,7 Fluorenesulfonic acid, amino *Be* salt, 509⁴
 C₁₁H₁₁NO₃ Malonic acid (methoxymethyl) phthalimido-, 1488¹
 C₁₁H₁₁N₃ 2,1 3 Benzotriazole 2 m tolyl 926⁴
 C₁₁H₁₁N₃O₃ α Naphthothiazole 2 ethyl 1,2 dihydro 1 nitrosamine, 5169⁴
 C₁₁H₁₁N₃O₃ Benzaldehyde p -nitrophenylhydrazone, 4243⁴
 C₁₁H₁₁N₃O₃ Carbamide β nitrothio- 104⁴
 C₁₁H₁₁N₃O₃ 2,5 Pyrrolecarboxylic acid 3 (β β dicyanovinyl) 4 methyl, 5 Et ester, 962⁴
 C₁₁H₁₁N₃O₃ Benzenesulfonic acid, nitro benzaldehyde 2702¹
 β Toluenesulfonamide, 3 nitro α phenyl imino-, 928⁴
 C₁₁H₁₁N₃O₃ 1 Naphthalenecarbamic acid 2,4-dinitro- Et ester, 4876¹
 C₁₁H₁₁N₃O₃ Toluene, picrate 1816⁴
 C₁₁H₁₁N₃O₃ Cresol, picrate, 1815⁴
 C₁₁H₁₁N₃O₃ Orcinol picrate 1815⁴
 C₁₁H₁₁N₃O₃ Benzenesulfonamide β formyl *Na* deriv β nitrophenylhydrazones 928⁹
 Benzenesulfonamide, 4 formyl 3 nitro *Na* deriv phenylhydrazones 928⁹
 C₁₁H₁₁N₃O₃ Benzenesulfonamide, 4 - formyl 3 nitro -, β nitrophenylhydrazones, 928⁹
 C₁₁H₁₁Na Methane, diphenyl, *Na* deriv 1239⁴
 C₁₁H₁₁Na Methane, diphenyl, 1717³, 4774⁹, 5830¹
 Naphthalene, 1-isopropenyl, 3971¹
 C₁₁H₁₁AsNO Phenarsazone 1 ethyl 1,6 dihydro-, 1-oxide, 1831⁴
 C₁₁H₁₁BO₃ Boric acid, (benzamido-phenyl) 1227⁴
 C₁₁H₁₁BrNO₃ m Benzenesulfonotoluide, 5' bromo-6' hydroxy, 5408¹
 C₁₁H₁₁BrNO₃ Acetonaphthone, bromo-, semi carbazone, 5417¹
 Triazene 1 (β -bromophenyl) 3 methyl 3 phenyl-, 1-oxide, 2126⁴
 C₁₁H₁₁BrNO₃ 2 Pyrrolecarboxylic acid 6-bromo-
- methyl) 4 (β , β dicyanovinyl) 3 methyl, Et ester, 962⁴
 C₁₁H₁₁BrN₃S Semicarbazide 4 (β bromo-phenyl) 1 phenylthio, 2701¹
 C₁₁H₁₁Br₂N₃O Carbonylhydrazide, α , β -bis(β bromo-phenyl) 1
 C₁₁H₁₁Br₂Pb Plumbane, dibromophenyl α -tolyl 2688⁴
 C₁₁H₁₁CIN Acridine 5 chloro 1 2 3 4 tetra hydro- 3346¹
 Diphenylamine chloromethyl 2146¹ 2147¹
 C₁₁H₁₁CINO Aniline, 2 (benzyloxy) 4 chloro P 1841¹ P 3666
 p -Cresol 3 p -chloroanilino- P 4011⁹
 1 Naphthoyl chloride 4-dimethylamino, 1515⁹
 C₁₁H₁₁CINO₃ Quinac acid β -chloroethyl ester 955¹
 C₁₁H₁₁CIN₃ Ketone 6-chloro-3 pyridyl methyl phenylhydrazones, 4268⁴
 C₁₁H₁₁Cl₂O₃ 1 3 Benzodioxan 6 carboxylic acid 2 4 bis(dichloromethyl) Et ester 5428¹
 C₁₁H₁₁N₃ Benzaldehyde phenylhydrazones 5037 1507⁷
 2 7 Fluorenediamine 4813³
 2 9 Pyridindole 1,9-dimethyl 301¹
 — 1-ethyl 300⁴
 C₁₁H₁₁N₃O (See also Carbamide *Harmine*)
 β Cresol 2 phenylazo-, 3346¹
 9 Fluorenone diamino- 510⁴
 Harman 6(and 8) methoxy, 301⁴
 Salicylaldehyde phenylhydrazones 1507⁴ 4861¹
 C₁₁H₁₁N₃O₃ Diphenylamine 2 methyl 4 nitro 500⁴
 C₁₁H₁₁N₃O₃ Benzenesulfonazole 2 (β amino-phenyl) 1 2-dihydro, 928⁹
 C₁₁H₁₁N₃O₃ Benzamide *N* (2 furylcarbonyl methyl), oxime, 2143⁴
 Carbamide dihydroxy, 1504¹
 Glycine, (2 quinolylcarbonyl) Me ester, 3000¹
 C₁₁H₁₁N₃O₃ Aniline, 4 (β methoxyphenoxy) 2 nitro-, 1816⁴
 1(2) Pyrimidineacetate acid 3,6 dihydro 2 6 diketo - 3 methyl 4 phenyl 516⁴
 1 Pyrrolethanol p -nitrobenzoate, 1823⁹
 C₁₁H₁₁N₃O₃ Benzenesulfonic acid β (β amyl azo) 2994¹
 C₁₁H₁₁N₃O₃Pb + 2H₂O Phenyl α -tolyllead di nitrate dihydrate 2688⁴
 C₁₁H₁₁N₃S (See also Carbamide, *thio*-)
 α Naphthothiazole, 2 ethyl 1,2 dihydro 1 imino- 5169⁴
 C₁₁H₁₁NaNaO₃ Benzenesulfonamide β formyl-, *Na* deriv phenylhydrazones 928⁹
 C₁₁H₁₁NaNaO₃ Semicarbazide 4 (m nitro-phenyl) 1 phenylthio, 2701¹
 C₁₁H₁₁N₃O₃ Benzenesulfonamide β formyl-, p -nitrophenylhydrazones, 928⁹
 Benzenesulfonamide, 4 formyl 3 - nitro, phenylhydrazones 928⁹
 Benzenesulfonazole, 1,2 dihydro 5 nitro 2 (β phenylhydrazones), 928⁴
 C₁₁H₁₁N₃O₃ Carbonylhydrazide, α , β -bis(β nitro-phenyl), 1504¹
 C₁₁H₁₁O (See also Benzohydrol)
 β Cresol, α phenyl, P 115⁹, 503¹
 Ketone methyl 4 methyl 1 naphthyl, P 1684¹

- Naphthalenecarbinol, α vinyl, 3329⁷
 Δ^1 1 Propenol 3 [1(and 2) naphthyl], 3329⁸
 2 Propionaphthone 944²
 C₁₅H₁₀O₃ Sulfonide benzyl phenyl, 5063¹
 C₁₅H₁₀O₂ Benzene 1 methoxy-4 phenoxy, 1516¹
 1 6 5 Benzonaphthendione, 2,3,3a,4 - tetrahydro- 1832³ 5161¹
 1 Naphthol 7 methyl acetate, 1515¹
 4 3 β Naphthopyrone, 7,8,9,10 tetrahydro- 2426¹
 1 2 Naphthoquinone trimethyl, 680¹ 2714¹
 Phenol p (p anisyl) and compd with H₂O, 48²
 — m -(benzyloxy) 5408⁷
 — methylenes- 503¹ 3323¹
 C₁₅H₁₀O₃ Sulfone benzyl phenyl, 5063¹
 C₁₅H₁₀O₂ Lactic acid α 1 naphthyl 2994¹
 2 Naphthene acid, 8-methoxy Me ester, 364¹
 C₁₅H₁₀O₃ Acetic acid (2 methoxy 1 naphthylmercapto) 3330¹
 α -Cresol 4 (phenylsulfonyl) 2127¹
 C₁₅H₁₀O₂ Umbelliferone 3 4-dimethyl, acetate, 420¹
 C₁₅H₁₀O₂ 4 Chromanone, 7 8-dihydroxy-, diacetate 1534¹
 C₁₅H₁₀O₃ Methanoic acid di Ph ester, 4840¹
 C₁₅H₁₀O₂ Benzaldehyde 2 4,6-trihydroxy triacetate 933¹
 C₁₅H₁₀O₂ Hemimellitic acid, 4 5-methyleneoxy tri Me ester, 3344¹
 C₁₅H₁₀AsO₂ Benzenearsonic acid, α -benzyl 2730¹
 C₁₅H₁₀BrN₂O₂ Tryptophan bromoacetyl, 2693¹
 C₁₅H₁₀ClN₂ Hydrazine, α p chlorobenzyl α phenyl 452⁷
 C₁₅H₁₀N Benzylamine λ phenyl, 503¹, P 522¹, 1501¹, 181⁷ 200¹
 Diphenylamine methyl- 692⁷, 1501¹
 2 6-Lutidine, 4 phenyl 272¹
 Quinolone, 2 3-butanyl 1829¹
 C₁₅H₁₀NO Acetamide, N methyl N 2 naphthyl 454¹
 Acetamide V (8 methyl 2 naphthyl), 1211¹
 5(10) Acridone, 1,2,3 4 tetrahydro, 3346¹
 Cresol, anisole, 181⁷ P 4011¹
 Phenol p -benzylamino- 502¹
 2 Propionaphthone oxime, 944²
 2 Pyridol 6 ethyl 4 phenyl, 214¹
 2(1) β -Pyridone, 4 methyl 6- p -tolyl, 4881¹
 C₁₅H₁₀NO₂ Aniline, p - (β methoxyphenoxy), and salts 1816¹
 1 Naphthalenecarbanic acid, Et ester, 48²
 Δ^1 Oxazolone, 4 5-epoxy-4 5-dimethyl 2 styryl, and HCl, 294¹
 2 Propanone, 1- (2- hydroxy-1-naphthyl), oxime, 4883¹
 1 Pyrrolethanol, benzoate, 1827¹
 C₁₅H₁₀NO₂ Canthosanic acid, 6-ethoxy, Me ester, 954¹
 Canthosanic acid 6-hydroxy, isopropyl and Pr esters, 954¹
 —, 2 isopropoxy-, 5243¹
 —, 2 propoxy-, 5243¹
 Quinonic acid Et ester, 953¹
 C₁₅H₁₀NO₂ 1 Indanacetic acid, 2 3-diketone, Et ester, 2-oxime 5162¹
 3 Indolebutyric acid 2-carboxy, 514¹
 C₁₅H₁₀NO₂ 3 Alanine, N - [1(and 2) - naphthylsulfonyl], 2115¹
 C₁₅H₁₀NO₂ 3-Indolepropionic acid, 2-carboxy 7 methoxy, 4880¹
 Skimmianal, 298¹
 C₁₅H₁₀NO₂ Skimmianic acid, 298¹
 C₁₅H₁₀N₂ Acetophenone, 3-pyridylhydrazone, 3344²
 Aniline, α -(m tolylazo), 926⁷
 Guanidine, diphenyl, 1111¹, P 5179¹, 600¹
hyssosufide, 2422¹
 C₁₅H₁₀N₂O 2 Acetonaphthone, semicarbazone, 944²
 Triazene, 3 - methyl - 1,3 - diphenyl, 1-oxide 2126¹
 C₁₅H₁₀N₂O₂ Canthosanic acid, 6-hydroxy-, isopropylidenedihydrazide, 904¹
 C₁₅H₁₀N₂O₂ Benzenesulfonamide, p -formyl, phenylhydrazide, 928¹
 C₁₅H₁₀N₂O₂ Acetoacetic acid, α -cyano- α -phenyl azo-, Et ester, 917¹
 Ketone, 2 furyl α -hydroxybenzyl, semicarbazone, 48²
 C₁₅H₁₀N₂O₂ Salicylic acid, 5-(2 4-diamino-anilino)-6-sulfo-, 6 λ salt, 5034¹
 C₁₅H₁₀N₂O₂ Benzenesulfonic acid, p -(p -nitrophenylazo)-, urea salt, 287¹
 C₁₅H₁₀N₂O₂ p -Toluidine, α amino-, monopicrate, 4244¹
 C₁₅H₁₀ Naphthalene, isopropyl, 944¹, 3971¹
 Naphthalene, trimethyl-, 634¹, 693¹, 1232¹, 2714¹, 4044¹
 C₁₅H₁₀AsNO₂ Phenarsazone, 1,6 - dihydro 1 methyl- 1 1-dihydroxy deriv, 1531¹
 C₁₅H₁₀AsN₂O₂ See *Neosarphenamine*
 C₁₅H₁₀AsN₂O₂ Methanesulfonic acid, 5 [(3 amino 4 hydroxyphenyl)arseno] 2 hydroxyanilino-, Co salt, P 377¹
 C₁₅H₁₀BrN₂O₂ Butyric acid, α (p -bromophenyl azo)- α -cyano-, Et ester, 917¹
 Glyoxylic acid, cyano-, Et ester, (p bromophenyl)ethylhydrazide, 917¹
 C₁₅H₁₀BrN₂ Isopyrrole, 4-bromo-2 (bromo-dimethyl 2 pyrrolylmethylene) - 3,5 dimethyl, 4260¹ HBr, 3010¹
 Isopyrrole ethylmethyl 2 (2 - pyrrolylmethylene), dibromo deriv, HBr, 112¹
 C₁₅H₁₀ClNO 2 Propanol, 1 - chloro - 3 - (1 - naphthylamino), P 4284¹
 C₁₅H₁₀ClO₂ Pimelic chloride, γ -phenyl, 5161¹
 C₁₅H₁₀N₂ Pimelonitrile, γ -phenyl, 5161¹
 2,9 - Pyridindole, 3 4 - dihydro 1,9 - di methyl, 3011¹
 —, 1-ethyl-3 4-dihydro-, 300¹
 2 - p - Tolylenediamine, Δ^1 - phenyl -, and HCl, 500¹, 601¹
 C₁₅H₁₀N₂O (See also *Harmaline*)
 Harmalin, 3 4-dihydro-2-methoxy, 301¹
 p - Phenylenediamine, 3 methoxy - V λ phenyl, P 1262¹
 Urea, α ethyl- β 1 naphthyl-, 45²
 C₁₅H₁₀N₂O₂ Aniline, β p methylenedioxy-, 5393¹
 1 6(5) - Benzonaphthenedione, 2,3 3a,4 - tetrahydro-, dioxime, 1832³
 Carbostyryl, acetamidodimethyl, 296¹
 2 Furanpropionamide, β -amino-, 2143¹
 1 Isoquinolineacetonitrile, 3,4 dihydro - 6,7-dimethoxy, and HCl, 1530¹
 α Phenylenediamine, 4 - (β - methoxyphenoxy) 1816¹
 1 Pyrrolethanol p -aminobenzoate, 1827¹

- $C_{15}H_{16}N_2O_5$ Barbituric acid, 5-ethyl-1 methyl 5-phenyl, P 2738
 Quinamide, *N* - β - hydroxyethyl-, 544¹
 4 - Quinolincarbamic acid, 6 - methoxy, Et ester, 903²
 Urea, α - (hydroxymethyl) - β - (1 hydroxy 2 naphthylmethyl)-, 5400³
 $C_{15}H_{16}N_2O_5$ Hydantoin, 5 (2,4,5 trimethoxy benzyl)-, 5403⁴
 $C_{15}H_{16}N_2O_5$ Aspartic acid, *N* hippuryl, 491⁵
 $C_{15}H_{16}N_2O_5$ Benzeneisobutamic acid, β β ureidobas-, 4537⁶
 $C_{15}H_{16}N_2S$ Urea, α ethyl α - 2 - naphthylthio, 5109⁷
 $C_{15}H_{16}N_4$ Pyridine, 3 (β - dimethylamino-phenylazo), and HCl 3344⁸
 $C_{15}H_{16}N_4O$ Carbohydramide, α β -diphenyl-, 1504⁹
 $C_{15}H_{16}N_4O_3S$ Benzenesulfonic acid, β -phenylazo-, urea salt, 257¹⁰
 $C_{15}H_{16}N_4O_3S_5$ Benzenesulfonazolesulfonamide, 1,2 dihydro 2 (β phenylhydrazino), 925¹¹
 $C_{15}H_{16}O$ Ether, ethyl 1 naphthylmethyl, P 1841¹²
 1 Naphthol 4 isopropyl, P 4557¹³
 $C_{15}H_{16}O_2$ Coumarin, 3 ethyl 4,7 dimethyl, 4542¹⁴
 1,3 Cyclohexanodione, 2 methyl 5 phenyl 687¹⁵
 Δ^1 -Cyclohexenone, 3 hydroxy 2 methyl 5-phenyl, 3319¹⁶
 2 - Naphthaleneacetic acid, 1,2 3 4 tetrahydro 1 hydroxy α methyl, γ lactone P 967¹⁷
 $C_{15}H_{16}O_2$ Coumarin 3 ethyl 7 methoxy 4-methyl, 4201¹⁸
 1 Indanacetic acid 3-keto Et ester 5162¹⁹
 1,3 Indandione 4 hydroxy 2 isopropyl 7 methyl- 2715²⁰
 —, 4 hydroxy 7 methyl 2 propyl, 2718²¹
 2 - Naphthaleneacetic acid 1,2,3,4 tetrahydro - 1 hydroxy 5 methoxy, γ -lactone, P 967²²
 1 Naphthalenepropionic acid, 1,2,3,4 - tetrahydro-4 keto-, 1832²³ 5161²⁴
 1,3 Pentaedione 1 phenyl enol-acetate, 5394²⁵
 Umbelliferone 3 isopropyl 4 methyl, 4869²⁶
 —, 4-methyl 3 propyl 4869²⁷
 $C_{15}H_{16}O_2$ Chromone, 5,7 dimethoxy 2 3 dimethyl-, 4230²⁸
 Coumarin, 5,7 dimethoxy 3 4 dimethyl, 4250²⁹
 Et ester, m 103-4° of acid from dihydro-cannalinal, 518³⁰
 1,3-Indandione, 4 hydroxy 6 methoxy-2 propyl-, 2140³¹
 Pyrocatechol, 4 - propenyl, diacetate, 5102³² 5409³³
 $C_{15}H_{16}O_3S_4$ Sulfonic acid, methylphenyl(phenyl sulfonyl), and K salt, 283³⁴
 $C_{15}H_{16}O_3$ Acrylic acid β - (2,4 - dimethoxy benzoyl), Me ester, 4866³⁵
 Compd from lettuce, 6890³⁶
 $C_{15}H_{16}O_4$ 1,1 3 - Propanetricarboxylic acid, methyl 2-phenyl-, 82³⁷
 α α Toluenediol, α -hydroxy, triacetate, 933³⁸
 $C_{15}H_{16}BrN_2O_2$ Isobutyrophemone, α - bromo - 2 4 6-trimethyl 3 5 dimino, 503³⁹
 $C_{15}H_{16}BrO_2$ Isovaleric acid, β bromophenacyl ester, 920⁴⁰
 Pivalic acid, β -bromophenacyl ester, 1820⁴¹
 Valeric acid, β -bromophenacyl ester, 920⁴²
 $C_{15}H_{16}BrO_2$ Benzyl alcohol, α -(α bromoethyl) β -hydroxy-, diacetate, 4338⁴³
 $C_{15}H_{16}BrO_2$ Piperonyl alcohol, α -(α -bromoethyl) 5-methoxy, acetate, 4338⁴⁴
 $C_{15}H_{16}BrO_2$ Isobutyrophemone, α , 3, 5 - tribromo 2 4 6-trimethyl, 503⁴⁵
 $C_{15}H_{16}ClN_2$ Isopyrrole 2 [chloro(3,5 di methyl 2 pyrrolyl)methylene] 3 5 - dimethyl, and HCl, 5000⁴⁶
 $C_{15}H_{16}ClN_2O_2$ Isoquinolindimide 1 (chloro-methyl) 1,2 3 4 tetrahydro 6 7 dimethoxy 1530⁴⁷
 $C_{15}H_{16}ClN_2O_2$ Tyrosine *N* chloroacetyl 2 nitro-, Et ester 2694⁴⁸
 $C_{15}H_{16}ClO_2$ 1 4 Naphthalenediol 2 chloro 1 4 dihydro 1,3 4 trimethyl, 4339⁴⁹
 $C_{15}H_{16}N$ Isoquinoline 1 butyl 1829⁵⁰
 Quinoline 2 butyl-, 1829⁵¹ and salts, 1829⁵²
 $C_{15}H_{16}NO_2$ 3 Indolebutyric acid Me ester, 514⁵³
 Quinolone, 6 8-dimethoxy P 133⁵⁴
 $C_{15}H_{16}NO_3S$ Benzylamide, benzenesulfonate, 5150⁵⁵
 $C_{15}H_{16}NO_3S_4$ Rhodamine 3 - (3,4 dimethoxy phenethyl), 4241⁵⁶
 $C_{15}H_{16}NO_4$ Oxamic acid, 2-carboxy-4,5-di methoxy, di Me ester 2149⁵⁷
 $C_{15}H_{16}NS$ Methene from 2 thiophenealdehyde and cryptopyrrole, HBr, 112⁵⁸
 $C_{15}H_{16}N_2$ Ketone methyl 5-methyl 2 pyrrolyl, phenylhydrazone 3008⁵⁹
 $C_{15}H_{16}N_2O_2$ Butyric acid α cyano α phenyl azo- Et ester 917⁶⁰
 Glyoxylic acid cyano-, Et ester, ethyl-phenylhydrazone 917⁶¹
 Malonaldehydic acid, cyanomethyl-, Et ester phenylhydrazone 1696⁶²
 $C_{15}H_{16}N_2O_2$ 3 Hydantoinaceto-2,4 hydride, 4228⁶³
 1 Naphthaleneacetic acid 1,2,3,4 tetrahydro-4 keto- semicarbazone, 5161⁶⁴
 $C_{15}H_{16}N_2O_3S_4$ Azo dye from 2-ethyl-5-methyl-pyrrole and $HONaClH_2NCl$, 3008⁶⁵
 $C_{15}H_{16}N_2O_4$ Acetoacetic acid α -benzoyl-, Me ester, semicarbazone, 3631⁶⁶
 Δ^1 1 Butenone, 3 hydroxy 1 phenyl semicarbazone, methylcarbonate, 3631⁶⁷
 $C_{15}H_{16}N_2O_4$ Acetoacetic acid, α - methyl α (*m*-nitrophenylazo), Et ester, 917⁶⁸
 $C_{15}H_{16}N_2S_2$ 2(3) Thiazolone, 4 β tolyl-, anne with acetone, 1032⁶⁹
 $C_{15}H_{16}N_2O_4$ Allylamine, picolonate, 70⁷⁰
 $C_{15}H_{16}N_2O_4$ Cyclohexene, 1 benzyl-, 2698⁷¹
 Cyclohexene, 3 methyl 2 phenyl-, 3970⁷²
 Naphthalene, dihydrotetramethyl-, 693⁷³, 1239⁷⁴
 $C_{15}H_{16}BrNO_2$ Anthranilic acid, *N* (α bromoisocaproyl), 492⁷⁵
 Benzene acid β (α - bromoisocaproyl amino), 492⁷⁶
 $C_{15}H_{16}BrNO_2$ Diethyl ester, m 115°, of di carboxylic acid which slowly carbonizes above 230°, 1520⁷⁷
 $C_{15}H_{16}BrO_2$ Isobutyrophemone, 3,5-dibromo 2 4 6-trimethyl, 503⁷⁸
 $C_{15}H_{16}ClNO_2$ α -Tyrosine, β -chloroacetyl-, Et ester 2694⁷⁹
 $C_{15}H_{16}ClNO_2$ α - Toluic acid, α - (α - chloro-acetamido) - 3,4,5 trimethoxy-, 1226⁸⁰
 $C_{15}H_{16}ClN_2$ Azo dye from 2-ethyl-5-methyl-pyrrole and PhN_2Cl , 3008⁸¹
 $C_{15}H_{16}HgNNaO_2$ See Salysan
 $C_{15}H_{16}IN$ Trimethyl - 2 - naphthylammonium iodide, 4543⁸²

- C₁₅H₁₆N₂ Isopyrrole, ethyldimethyl 2 (2 pyrrolimethylene), *HBr*, 112°
Quinoline 2 (β ethylaminoethyl) 4270°
C₁₅H₁₆N₂O Acridine, 1,2,3,4,4a,5,10,10a octahydro-10 nitroso- 5675°
Benzoxazole 1 amine 2a,3,4,5,6,6a hexahydro, 3617°
Harmine tetrahydro, 700° 741°
Ketone bis(3,5 dimethyl 2 pyrrol) and *HBr* 5899°
C₁₅H₁₆N₂O₂ 2 Indanacetic acid α 2 dicyanohexahydro-, 3333°
Leucine *N* anthranoyl, lactam, and *HCl*, 492°
Quinoline, 8 amino 5 isopropoxy 6 methoxy, *P* 5134°
Spiro[indan 2,3 pyrrolidine] 4 nitrile 2 5'-diketo- 3333°
C₁₅H₁₆N₂O₂S Benzoxazole α (α methyl 2 *m* dithianylidenehydrazine), *Me* ester 2697°
C₁₅H₁₆N₂O₂ Acetamide α cyano *N* (3,4 dimethoxyphenethyl) 1530°
Levulinic acid α tolylhydrazine 1821°
C₁₅H₁₆N₂O₂ Hydantoin 5 (2,4,5 trimethoxy benzyl) 5400°
Leucine *N*-*o*-nitrobenzoyl 492°
4 Morpholinethanol *p* nitrobenzoate *HCl* 4272°
C₁₅H₁₆N₂O₂ Cycloheptanone 2,4 dimethoxyphenyl hydrazine 3319°
Dimethoxyphenylhydrazine *m* 173°, of ketone *b_m* 146°, 1499°
C₁₅H₁₆N₂O₂ 2 Morpholine 4 ethyl-3 methyl, picrate 5143°
C₁₅H₁₆O 1(2) Naphthalenone 3,4 dihydro-trimethyl- 694°, 4544°
2 Propionaphthone, 5,6,7,8 tetrahydro 943°
C₁₅H₁₆O₂ Cinnamic acid 2,4-dimethyl *Et* ester 693°
Crotonophenone, β ethoxy *p* methyl, 4581°
2 Hexanone, 3 (β hydroxybenzal) 2132°
2 Pentanone 3 anisal 2132°
β-Pentenone acid *γ* phenyl, *Et* ester, 1803°
C₁₅H₁₆O₂ Hydrocinnamic acid α acetyl *Et* ester, 52°
Spiro[cyclopropane 1,2 - indan] 2,3 dicarboxylic anhydride, hexahydro 3334°
C₁₅H₁₆O₂ Cinnamic acid, 2,4 dimethoxy α,β-dimethyl, 5420°
5 *m* Dioxanol, 2,2 - dimethyl -, benzoate, "6°
1,3-Dioxolane 4 cartanol, 2,2-dimethyl, benzoate, 3636°
Glutaric acid, β benzyl-*m* methyl, 1803°
—, β-(*α* methylbenzyl), 1803°
Malonic acid, phenyl, di-*Et* ester, 2986°
Inenol, 2 (methoxymethoxy)propenyl, acetate 5404°
Fimelic acid, *γ* phenyl, 1822°, 5161°
Spiro[cyclopropane - 1,2' - indan] 2,3 dicarboxylic anhydride, hexahydro - 2 hydroxy, 3335°
C₁₅H₁₆O₂ Caproic acid, α-(2,4-dihydroxybenzoyl), *P* 2°
Cinnamic acid, ethoxydimethoxy, "6°
1,3 Dioxolane 4 cartanol, 2,2 dimethyl,
- p*-hydroxybenzoate, 3636° salicylate, 3636°
Propiophenone, 4 hydroxy - 2,6 dimethoxy, acetate, 4240°
C₁₅H₁₆O₂ Succinic acid, (2,4 - dimethoxyphenyl), mono-*Me* ester, 4866°
C₁₅H₁₆O₂ Gluco *m* hydroxybenzaldehyde, 2697°
Hebeon, 1232°
Ruscic acid *di* *Me* ester, 1,10°, 3339°
Salicylic acid, β xyloside, *Me* ester, 5677°
C₁₅H₁₆BrO Isobutyrophenone, α - bromo 2,4,6-trimethyl, 505°
C₁₅H₁₆BrO₂ Spiro[furan 3(2),2' - indan] - 2 carboxylic acid, 4 bromooctahydro 5 keto-, 3334°
C₁₅H₁₆ClO Isovaleryl chloride, α methyl-*γ* *o*-tolyl 4544°
Valeryl chloride, *γ* 2,4 xylol, 694°
C₁₅H₁₆IN₂O Urea, α 2 isodicyclohexyl β phenyl, 3716°
C₁₅H₁₆IN₂S Thiazole, 2 [*γ* (3,4 dimethyl 2(3) thiazolidenyl)propenyl] 4 methyl methiodide, 704°
C₁₅H₁₆N Acridine 1,2,3,4,4a,5,10,10a-octahydro-, 3345°
2 Benzofluoranthene, 1,3,4,6,11,11a - hexahydro- 5429°
Cycloheptadecole 4b,5,6,7,8,9,9a 10 octahydro-, 5674°
9 Fluorilamine, 1,2,3,4,4a,9a hexahydro-, 511°
Indoline, 1,3,3,5 tetramethyl 2 methyl ene- *P* 826°
Quinoline, 2 butyl 1,2-dihydro-, 1829°
C₁₅H₁₆NO Acetophenone α (1 piperidyl), 42°
α Hexanamide *γ* methyl, 71°
Hydroxycinnamide, *γ*-methyl-, 71°
1(2) - Naphthalenone, 2 dimethylamino-methyl 3,4-dihydro-, *HCl*, *P* 1639°
Pyrrolidine, 1 benzoyl 2-ethyl, 452°
Quinoline, 1 - acetyl - 1,2,3,4 tetrahydro 2,4-dimethyl, 705°
C₁₅H₁₆NO₂ 2 Hexanone 3 (β - hydroxybenzal), oxime, 2132°
2 Pentanone 3 anisal, oxime, 2132°
C₁₅H₁₆NO₂ Caproic acid *γ*-benzamido-, 4,25°, 4548°
2,4 Diacetylulide, 6 methoxy 930°
Glutaranilic acid *p*, β-dimethyl, 3625°
4 Morpholinethanol, benzoate, -*HCl*, 4272°
C₁₅H₁₆NO₂ Anthranic acid, *N* (α hydroxy isocaproyl), 492°
Benzene acid, *p* (α hydroxyisocaproylamino), 492°
Nicotinic acid, 5 acetyl 1,6 - dihydro 5 - keto 1,2,4 trimethyl, *Et* ester, 299°
3 Pyrroleacrylic acid, 5 carboxy 2,4 - dimethyl-, *Et* *Me* ester, 962°
C₁₅H₁₆NO₂ Carbanic acid, (2,4,5 - trimethoxybenzoyl), *Et* ester, 5154°
Glucosamine, *N* benzoyl-, 3965°
2 Pyrrolecarboxylic acid, 4 (β,β di carboxyethyl) 3,5 dimethyl, *Et* ester, 301°
C₁₅H₁₆NO₂ Leucine, *N* (α carboxyphenyl sulfonyl), 491°
C₁₅H₁₆N₂O (See also Pyrimidines)
2 Acetonaphthone, 5,6,7,8 - tetrahydro, aceticarbazone, 943°

- Benzoazazole, 2a 3,4,5,6,6a hexahydro 1 β phenylhydrazono-, and HCl, 3617²
- Cinnamaldehyde, α isopropyl, semicarbazone, 4247⁴
- Cyclohexanone, 4 phenyl, semicarbazone 5161⁴
- 1(2) - Naphthalenone, 3,4 dihydro: methyl, semicarbazone, 693², 1232⁴
- 1 Piperidinecarboxylic acid, benzalhydrazone, 4269²
- Semicarbazone, m 152°, of compd b: 140-1 6°, 4857¹
- C₁₂H₁₁N₃O₅ 2,4 Pentanedione, thio 4 β tolylsemicarbazone 1225⁴
- C₁₂H₁₁N₃O₄ α Heptenaldehyde β nitrophenylhydrazones, 5140⁴
- C₁₂H₁₁N₃O₃ Hydrazine, α acetyl β dimethyl oxamyl α methyl β phenyl, 3435⁴
- Valeric acid, β -benzoyl, semicarbazone 2135²
- C₁₂H₁₁N₃O₄ Isopropylamine, picrolonate 70¹
- Propylamine, picrolonate, 70¹
- Trimethylamine picrolonate, 70¹
- C₁₂H₁₁N₃O₄ Alanine, N glycol-, Et ester, picrate, 5899⁴
- C₁₂H₁₁N₃O₄ Naphthalene 1,2 3,4 tetrahydro 6 isopropyl-, 943²
- Naphthalene, 1,2 3,4 tetrahydro 1,6,8 trimethyl-, 694¹
- C₁₂H₁₁BrO₂ 2,2 Indandiacetic acid, α , α' dibromohexahydro- 3334²
- C₁₂H₁₁ClNO₂ Carbonic acid, β chlorophenyl β -diethylaminoethyl ester HCl, P 1900²
- Propionamide β chloro N (3,4 di methoxyphenethyl), 1530²
- C₁₂H₁₁ClN₃ Benzothiazolone 4 chloro 1 hexyl 4265²
- C₁₂H₁₁Cl₂N₃Pt + 4H₂O Quinolone 2 (amino-methyl) 4 ethyl 3 methyl, chloro platinate compd, 5862²
- C₁₂H₁₁IN₃O₂ Semicarbazone, 4 (2 isocyclohexyl)-1 phenyl-, 3617²
- C₁₂H₁₁N₃O₃ Levulinic acid Et ester phenyl hydrazones, 496²
- 2 Pentanone, 4 methyl, oxime, carbanilate, 1505²
- 1 - Pyrrolidaneethanol, β aminobenzoate 182²
- C₁₂H₁₁N₃O₂ Benzoic acid β butylamino-, 492²
- Carbamic acid, p-acetamid-, Ba, sec Bu and isobutyl esters, 5404²
- Isoleucine N phenylcarbamyl, 2417²
- Lysine, N⁶ benzoyl-, 2973²
- 4 Morpholineethanol, β aminobenzoate HCl 4272¹
- C₁₂H₁₁N₃O₃ Butyric acid, γ methylmercapto α β tolylcarbamido- 5395²
- C₁₂H₁₁N₃O₄ Carbamic acid β nitro-, hexyl ester 2686²
- C₁₂H₁₁N₃S Benzothiazole, 1 amylamine 3 methyl, 4881²
- Benzothiazole, 1-isomethylamine 3 methyl 4881²
- C₁₂H₁₁N₃ Isopyrrole, 4 amino 2 (4 amino-3,5 dimethyl 2 pyrrolimethylene) - 3 5-dimethyl, hydrobromide, 961²
- ketone, bis(3,5 dimethyl-2-pyrrolyl), hydrazine 5899²
- C₁₂H₁₁N₃O₃ Carbamic acid [α -(4- β -tolyl-3 thiosemicarbamido)ethylidene]-, Et ester, 3651²
- C₁₂H₁₁N₃O₂ Caproaldehyde, α hydroxy γ methyl, 2,4 dinitrophenylhydrazones, 3062²
- C₁₂H₁₁N₃O₂ Theophylline d glucosideside, 4278²
- C₁₂H₁₁N₃O₂ Heptamethylenimine, picrate, 1500²
- C₁₂H₁₁N₃O₂ Carbohydrazone α -(1 piperidyl carbonyl) picrate 4269²
- C₁₂H₁₁O₂ Cyclohexanol, 1 methyl 2 phenyl, 3970⁴
- Ether butyl phenylallyl, 2132²
- ethyl 5 6 7 8 tetrahydro 2 - naphthyl methyl P 2735²
- phenyl α propyl Δ^1 butenyl 2982²
- phenyl α , α , γ -trimethyl Δ^1 -butenyl, 2982²
- Phenol α (a methyl Δ^1 hexenyl) 2982²
- C₁₂H₁₁O₂ Acetophenone 5 butyl 2 hydroxy 3 methyl 929²
- Acetophenone 3 ethyl 2 hydroxy 5 propyl 930²
- Heptene 1,2 dethoxy 4 propenyl 5409²
- Butyric acid 6 ethyl α tolyl ester, 929²
- Butyropenone 3 ethyl 4 hydroxy 5 methyl 929²
- α -Cresol 4-butyl- acetate 929²
- Enanthophenone hydroxy, 1229¹
- Hydrocinnamic acid, α (and β)-ethyl-, Et ester 927¹
- Isovaleric acid, α methyl- γ -o-tolyl-, 4544²
- Microf, 3438²
- Phenol 2 ethyl 4 propyl-, acetate, 930²
- Spiro[cyclopentane 1,2 - indan]dione hexahydro-, 3334²
- Valeric acid γ -2,4 xylyl 694¹
- 2,6-Xylenol, 4 propyl acetate 929²
- C₁₂H₁₁O₂ Acetic acid (α -amylphenoxy), 1229¹
- Benzene 1(and 2) (ethoxymethoxy) 2(and 1) methoxy 4 - propenyl 5156²
- Spiro[indan 2,4 1,4 pyran] 2,6 (3,5)-dione hexahydro-, 3333², 3334²
- C₁₂H₁₁O₂ Divanillic acid Et ester 5413²
- Enanthic acid, γ (2,4 dihydroxyphenyl) P 2737²
- 3 Menthanemalonic acid, 1,4 dihydroxy diacetate, 4227²
- Spiro[cyclopropane 1,2' indan] 2,3 dicarboxylic acid hexahydro-, 3334²
- Spiro[furan 3(2) 2 indan] 2 carboxylic acid, octahydro-5-keto-, 3334²
- C₁₂H₁₁O₂ 3 Camphanecarboxylic acid, 2,3 epoxy 2 hydroxy acetate 4870²
- Hydrocinnamic acid, 2,4,5 - trimethoxy, Me ester, 5405²
- 2,2 Indandiacetic acid, hexahydro α keto 3334²
- Spiro[cyclopropane 1,2 indan] 2,3 dicarboxylic acid hexahydro 2 hydroxy, 3335²
- Spiro[furan 3(2), 2 - indan] - 2 carboxylic acid, octahydro 4 - hydroxy - δ - keto -, 3335²
- C₁₂H₁₁O₂ See Salix
- C₁₂H₁₁O₂ Ribose, tetraacetyl, 4229²
- C₁₂H₁₁AsN₃O₂ Arsanilic acid, N - (β propylcarbamylpropenyl)-, and δ -Na salt, 5407²
- C₁₂H₁₁BrN₃S Benzothiazole, 1 amylamine 3 methyl- γ , hydrohexabromide, 4581²
- Benzothiazole, 1-isomethylamine 3-methyl, hydrohexabromide, 4581²
- C₁₂H₁₁ClS Sulfide, γ -chloroheptyl phenyl, 5395²

- C₁₃H₁₅FO₈: Fructose 2-fluoromethyltriacetyl, 4232¹
- C₁₃H₁₅N Xenylamine, hexahydromethyl, P 712¹
- C₁₃H₁₅NO Isovaleramide, α methyl γ α - tolyl 454¹
- 2 Naphthol 2 (dimethylaminomethyl) 1 2 3 4 tetrahydro and salts 364²
- 2 Naphthylamine 1 2 3 4 tetrahydro 1 methoxy N dimethyl-, and HCl, 2139¹
- 1 Piperidinethanol, α phenyl -, HCl, 42¹
- Valeramide γ 2 4 xylol 694¹
- Valeramide, N β-dimethyl 459¹
- Xenylamine hexahydromethoxy P 712¹
- C₁₃H₁₅NO₂ Acetamide p isomoxo, 2706¹
- Benzyl alcohol α (β allyloxy α methyl aminoethyl), 2133¹
- Propiophenone β (ethoxyethylamino), 506¹
- C₁₃H₁₅NO₂S Pyrroldine 2 ethyl 1 - p tolylsulfonyl 4025¹
- C₁₃H₁₅NO₂ Pyrrolocarboxylic acid, 4 acetyl 5 methyl 3 propyl Ester, 3010¹
- 2 Pyrrolocarboxylic acid, 4 (β - ethoxy vinyl) 3 α dimethyl, Ester 1520¹
- 2 Pyrrologlyoxylic acid 3 5 dimethyl 4 propyl Ester 3009¹
- Tyrosine, isobutyl ester and HCl, 2742¹
- C₁₃H₁₅NO₂ Homospironylamine, β, 5 - di methoxy N α dimethyl, and HCl, 4538¹
- 2 5 Pyrroledipropionic acid, 1 - methyl di Me ester, 364¹
- C₁₃H₁₅NO₂ 3 Pyrroledipropionic acid 5 carbethoxy 2 (methoxymethyl) - 4 methyl, 4009¹
- o-Toluidine, glucoside, 5667¹
- C₁₃H₁₅NO₂ o-Anisidine glucoside, 5667¹
- C₁₃H₁₅N₂O 2 Butanone, 3 - methyl 4 - tolyl, semicarbazone 4544¹
- 3 Hexanone, phenyl, semicarbazone 4807¹
- Pentanone, methylphenyl, semicarbazone, 4807¹
- Semicarbazone m 71-3 5¹, of compd b 123-4 5 4807¹
- C₁₃H₁₅N₂O₂ 2 Butanone 4-p-anisyl 3-methyl, semicarbazone, 691¹
- Caprophenone o-hydroxy, semicarbazone 1229¹
- 2 Pentanone, 3 p-anisyl, semicarbazone, 691¹
- C₁₃H₁₅N₂O₂ Leonurine, 71¹, 128¹
- C₁₃H₁₅N₂O₂ Pentamethylenetetramine, dimethyl picate 4523¹
- C₁₃H₁₅N₂O₂ Heptane 1 phenyl 3469¹
- C₁₃H₁₅BrNO₂ Benzenesulfonamide, p bromo N heptyl, 2¹
- C₁₃H₁₅BrN₂O₂ Histidine N-α-bromoisopropyl, methyl ester, 518¹
- C₁₃H₁₅ClNO₂ Benzyl(carboxymethyl)dimethyl ammonium chloride, Et ester, 91¹
- C₁₃H₁₅HgO₂ Compd from 1 heptane and Hg (OAc)₂, 71¹
- C₁₃H₁₅I NO (Methoxy)indanyltrimethylammonium iodide, 2139¹
- 2(1) - Pyridone, 5 - iodo - 1 octyl, and HCl, 9-3¹
- C₁₃H₁₅N₂O₂ (see also Proxane)
- Isoquinoline, 1 - (β - aminoethyl) 1,2,3,4 tetrahydro - 6,7 - dimethoxy -, and HCl, 1539¹
- C₁₃H₁₅N₂O₂ Guanacol, (α - dimethylaminoethyl)-, methylcarbamate, 4241¹
- C₁₃H₁₅N₂O₂ Glucose, 2 methyl-, phenylhydrazide, 1804¹
- C₁₃H₁₅N₂O₂ Benzenesulfonic acid, Me ester, compd with hexamethylenetetramine, 3322¹
- C₁₃H₁₅N₂O₂ 1 - Phenol - 4 - sulfonic acid, Me ester, compd with hexamethylenetetramine, 3322¹
- C₁₃H₁₅N₂O₂ Heptylamine, picate, 70¹
- Tricarballic acid, β (hydroxymethoxy), lactone, 3128¹
- C₁₃H₁₅N₂O₂ 2 Butanol, 1 - ethylamino 3 - methyl, picate, 2690¹
- Heptylamine, styphnate, 70¹
- 2 Propanol, 1-diethylamino-, picate, 2690¹
- C₁₃H₁₅N₂O₂ 1 2 Cyclopentanedicarboxylic acid, 3,5 diketo, di Et ester, dimeric carbazone, 3631¹
- C₁₃H₁₅O₂ Cresol, 4 butyl-6 ethyl, 929¹
- Ionone, 2934¹
- Phenol, heptyl, 1229¹
- C₁₃H₁₅OS 1 Heptanol, 7 phenylmercapto-, 5395¹
- C₁₃H₁₅O₂ 2 Indenacetic acid 3a,4 5 6,7,7a - hexahydro-, Et ester, 3333¹, 3334¹
- Phenol m (heptyloxy)-, 5408¹
- Resorcinol, heptyl, 2483¹, 3091¹, 4611¹
- C₁₃H₁₅O₂ 2 Indanacetic acid, 2 - acetylhexahydro-, 3335¹
- Orthobenzoic acid, tri Et ester, 2976¹
- C₁₃H₁₅O₂Pb Furancarboxylic acid, triethyllead salt, 2485¹
- C₁₃H₁₅O₂ Camphanecarboxylic acid, hydroxy, acetate, 5156¹
- 2 Indanacetic acid 2 carboxyhexahydro - mono Me ester, 3333¹
- , hexahydro 2 hydroxy, acetate, 3333¹
- 2,2 Indanacetic acid, hexahydro-, 3333¹, 3334¹
- C₁₃H₁₅O₂ 1,2 - Cyclohexanedicarboxylic acid, 3 (carboxymethyl) - 2 4 dimethyl, 2-Me ester 3656¹
- 1 2,3 Cyclohexanetricarboxylic acid, 2,4 - dimethyl, 1 2-di Me ester 3657¹
- C₁₃H₁₅O₂ 1,1 2 Butanetricarboxylic acid, 3 - keto-, tri Et ester, 3631¹
- C₁₃H₁₅O₂ Glucoside, diacetyl ethylidene-β methyl, 5147¹
- Glucoside, ethylidenemethyl, diacetate, 5401¹
- Pentaerythritol tetraacetate, 1802¹
- Rhamnoside γ-triacetyl(methyl), 86¹
- C₁₃H₁₅BrOP Phosphine, p - anisylpropyl, dibromide, 283¹
- C₁₃H₁₅N Diethylamine, N (γ - phenylpropyl), P 2153¹
- Pyridine, dibutyl, and chloroplatinide, 1829¹
- C₁₃H₁₅NO Phenethylamine, N, N diethyl - p - methoxy, P 2153¹
- 1 - Propanol 3 - [methyl(γ phenylpropyl) amino], 2710¹
- C₁₃H₁₅N₂O₂ Benzyl alcohol, m - (α methylamino-β propoxyethyl), 2133¹
- C₁₃H₁₅NO₂ Benzenesulfonamide, N heptyl, 2¹
- Mesitylenesulfonamide, γ butyl, 2 04¹
- 9 Toluenesulfonamide, N heptyl, 2704¹
- C₁₃H₁₅NO₂ Phenethylamine, 3 4 - trimethoxy - N, α dimethyl, and -HCl, 4539¹
- 2 - Pyrrolocarboxylic acid, 5 - (ethoxy methyl) - 4 ethyl - 3 - methyl -, Li ester, 4009¹

- C₁₁H₁₉NO₄ Glutaric acid, α -cyanoethyl β methyl di Et ester, 1803¹^a
 Glutaric acid, α -cyano- α , β , γ -trimethyl-, di Et ester, 82¹
 2 - Pyrrolecarboxylic acid, 4 (α β - dimethoxyethyl) - 3,5 - dimethyl, Et ester, 1520²
 C₁₁H₁₉N₃ Piperidine, 1 - [β - (α aminoisobutyl) ethyl], P 1036¹
 C₁₁H₁₉N₂O 2 - Propanone, 1 (hexahydro 2 indanylidene), semicarbazone, 333¹^a
 Spro[cyclohexane - 1,3 (3 a) - indazole] 2' - carbamyl - 4',5',6,7' tetrahydro 702²
 C₁₁H₁₉N₂O₂ 2 - Heptanone, 4 (2 furyl) 6 methyl, semicarbazone 5424²
 C₁₁H₁₉N₂O₂ Camphor 5-hydroxy, semicarbazone acetate, 290²
 C₁₁H₁₉OP Phosphine, β ausylidipropyl and HgCl₂ compd, 283¹
 C₁₁H₁₉AN Dicyclohexylgold cyanide 4220²
 C₁₁H₁₉BrN₂O₂ Leucine, N - [N (N bromo acetylglucyl)alanyl], 2693¹
 C₁₁H₁₉Cl₂O₂ 3 - β - Menthaeacetic acid 1 4 dichloro-, Me ester 4228¹
 C₁₁H₁₉Hg₂IP Diethylmethyl - 2,5 xylylphosphonium iodide, Hg₂ deriv 2702²
 C₁₁H₁₉I₂NO (β Methoxy α methylphenethyl) trimethylammonium iodide 1814²
 C₁₁H₁₉IP Diethylmethyl 2,5 xylylphosphonium iodide, 2702²
 C₁₁H₁₉IP Diethylmethyl 2,5 xylylphosphonium triiodide, 2702²
 C₁₁H₁₉N₂O 2 - Pyrrolecarboxamide N,1 di butyl, 931¹
 C₁₁H₁₉N₂O₂ Hydrazine, 2 β ; cymyl, lactate 1227²
 C₁₁H₁₉N₂O₂ 3 - Hydantoinacetic acid, ester with 2 octanol 4228²
 C₁₁H₁₉N₂O₂ Compd m 244-5² from compd m 240-2² and semicarbazide 3983¹
 C₁₁H₁₉O₂ 2 Camphaneacetic acid acetate 807²
 2 Indanacetic acid hexahydro-, Et ester, 3333¹
 C₁₁H₁₉O₂ 2 Indanacetic acid hexahydro 2 hydroxy Et ester, 3333¹ 3334¹
 Orthoacetic acid, phenyl- tri Et ester 2135²
 C₁₁H₁₉O₂ Δ^1 Cyclohexanecarbinol, α ethyl α ,4 dimethyl, acetate, 4857²
 Cyclopentanecarboxylic acid, 1 carboxy 3 methyl, di Et ester, 4234²
 Cyclopentanecarboxylic acid, 3 methyl, di Et ester, 4234²
 C₁₁H₁₉BrN₂O₂ Glycine N [N - (β bromoisovaleryl)leucyl] 78¹
 Isovaleric acid, β [N - (α - bromoisocaproyl)glycyl]amino, 78¹
 C₁₁H₁₉ClN₂O₂ Isovaleric acid β - (N chloroacetyl)leucylamino, 78¹
 C₁₁H₁₉IN₃ Spro[cyclohexanone indazole], 4,5,6,7' - tetrahydro, methiodide, 702²
 C₁₁H₁₉N 9 Fluorylamine, dodecahydro-, salt, 511¹
 C₁₁H₁₉N₂O Δ^1 α - β - Menthaeacetaldehyde, semicarbazone, 4950²
 C₁₁H₁₉N₂O₂ Glycine, N (N propylleucyl), 2074¹
 C₁₁H₁₉CH₂Hg₂N₂O₂ Malonamide, α α - bis-(chloromercuryl) N, N'-disuccinyl, 1219¹
 Malonamide, N, N' - diamyl - α α - bis-(chloromercuryl), 1219¹
 C₁₁H₁₉N₂O₂ Leucine, N [N - (N - glycylglycyl)alanyl] 2693¹
 C₁₁H₁₉O₂ Undecanaphthene acid, Et ester 3630²
 C₁₁H₁₉O₂ Acetic acid (3 β - menthyl) Me ester, 5672²
 C₁₁H₁₉O₂ Malonic acid (α ethylpropyl)isopropyl mono-Et ester 1219¹
 C₁₁H₁₉O₂ Glutaric acid β hydroxy α α , γ tetramethyl, di Et ester 4530¹
 Malonic acid, (δ butoxyethyl) di Et ester 3938²
 C₁₁H₁₉O₂ Undecylic acid hydroxysulfo, acetate 3314¹
 C₁₁H₁₉O₂ Cellobioside β methyl 85²
 Gentobiose, 1 β methyl, 5401¹
 Glucose 1 β methyl 6 α glucoside 5401¹
 Mannoside 4 galactoside α methyl 1222¹
 - 4 glucoside α methyl 1221¹
 C₁₁H₁₉BrN₂O₂ Lyxine N^a (α bromoisocaproyl) N^a methyl 2974¹
 C₁₁H₁₉BrO₂ Lauric acid α bromo, Me ester 5663¹
 C₁₁H₁₉NO Propionamide, N menthyl, 1233¹ 4450²
 C₁₁H₁₉N₂O Δ^1 3 Heptenone 2,2,5,6,6 penta methyl semicarbazone 3930²
 2 β Menthaeacetaldehyde, semicarbazone 4830²
 C₁₁H₁₉N₂O₂ Glycine N [N (β aminoisovaleryl)leucyl] 78¹
 Isovaleric acid β (N glycylleucylamino), 78¹
 - β (N leucylglycylamino) 78¹
 C₁₁H₁₉IN 3 Carvomenthyltrimethylammonium iodide 1234¹
 C₁₁H₁₉N₂O₂ Malonamide, N N'-diamyl, 1219¹
 Malonamide N, N'-disuccinyl 1219¹
 C₁₁H₁₉O₂ Compd m 99-100², from di Me caryophyllenate and MeMgI 2988²
 C₁₁H₁₉ClN₃ Lupinyltrimethylammonium chloride 960²
 C₁₁H₁₉N Heptylamine N cyclohexyl and HCl, 1809¹
 C₁₁H₁₉NO₂ Lauric acid, α amino-, Me ester, 4830¹
 C₁₁H₁₉NO₂ Cyclohexanesulfonamide, N heptyl, 1812¹
 C₁₁H₁₉N₂O₂ Lyxine N^a-leucyl N^a methyl, 2974¹
 C₁₁H₁₉O₂ 5-Nonanol, 5-butyl 2113¹
 C₁₁H₁₉O₂ 2 Propanol, 1 3 disuccinoyl 916¹
 C₁₁H₁₉As₂CdI₂ Tributylmethylarsonium iodide, Cd₂ deriv, 1485²
 Tributylmethylarsonium iodide, Cd₂ deriv 1485²
 C₁₁H₁₉As₂HgI₂ Tributylmethylarsonium iodide, Hg₂ deriv, 1485²
 Tributylmethylarsonium iodide, Hg₂ deriv, 1485²
 C₁₁H₁₉AsI₂ Tributylmethylarsonium iodide 1485²
 Tributylmethylarsonium iodide, 1485²
 C₁₁H₁₉Cl₂N₂O₂Pt Choline-pyruvylcholine, chloroplatinate 3314¹
 C₁₁H₁₉ClN₂O (γ Diethylamino - β methoxy propyl)diethylmethylammonium chloride, 5395²
 C₁₁H₁₉IN₃N₂O₂ Choline, iodide, compd with CHI₃, 282¹
 C₁₁H₁₉Cl₂N₂O₂Pt (γ - Diethylamino - β - methoxy propyl)diethylmethylammonium chloroplatinate, 5395²

- CuH₃Cl₄N₂O₃Pt Choline propionylcholine chloro platinate 3310¹
- C₁H₃ClO Anthraquinone tetrachloro 347¹
- C₁H₃ClO Anthraquinone trichloro- 364¹
- C₁H₃BrNO₂ Benzoic acid *o*-4-bromotrimutrobenzoyl P 604¹
- C₁H₃Br₂O Anthraquinone dibromo-, compds with salts 45¹, 45¹, 45¹
- C₁H₃BrO Anthraquinone 3,4-dibromo- compds with tri chlorides 48¹
- Quinazolin 2,3-dibromo- compds with salts 48¹
- C₁H₃ClNO₂ 2,6 meso Anthrathiazol 6 one 7-chloro- 5-dioxide P 31¹, 8¹
- C₁H₃ClNO Anthraquinone chlorotrimutro 94b 1521 P 4717¹
- C₁H₃ClNO₂ Benzoic acid *o*-(4-chlorotrimutrobenzoyl) P 604¹
- C₁H₃ClO Quinazolin dichloro- 3645¹
- C₁H₃ClO 2 Anthraquinonesulfonic chloride 5 chloro- 5421¹
- C₁H₃ClO 3 Anthraquinonesulfonic acid di chloro- 4a salts 5421¹, 542¹
- C₁H₃O Anthraquinone diiodo- 2994¹
- C₁H₃N₂O Anthraquinone 2,7-dinitro- P 325¹, 1¹, 20¹
- C₁H₃O₃ 1,2 β Naphthothiophenedicarboxylic anhydride 5165¹
- 2,3 Thiophanthenedicarboxylic anhydride 5165¹
- C₁H₃O₃ Filagic acid 2116¹
- C₁H₃BrClNO₂ Anthraquinone aminobromo-chloro- P 543¹
- C₁H₃BrO₂ Phenanthrenequinone 2 bromo-compds with salts 4575¹
- C₁H₃BrO Quinazolin 5-bromo- 3645¹
- C₁H₃BrNO₂ Phthalaz 1 one 2,6 di bromo-4 nitro-3-phenyl 4273¹
- C₁H₃BrNO Oxindole 3,3,5,7 tetrabromo 1 phenyl 293¹
- C₁H₃BrNO₂ 1,4 Naphthoquinone 2,3,5,7 tetrabromo-6-diethylamino- 1516¹
- C₁H₃ClN₂O Anthrone 1 and 4) chloro 4,8- and 1,8-di-nitro- P 5179¹
- C₁H₃ClO Anthraquinone chloro- P 4594¹
- compd with 5NCl₃ 45¹, 4¹
- C₁H₃ClO Anthraquinone chlorohydroxy 1742 5421¹
- C₁H₃ClO Quinazolin 5-chloro- 3645¹
- C₁H₃ClO 3 Anthraquinonesulfonic acid chloro-and salts 5421¹
- C₁H₃ClO 1,4,5,8 Naphthalenetetracarboxylic acid 2-chloro- P 4282¹
- C₁H₃ClO₃ Anthraquinonesulfonic acid chloro- and salts 5421¹, 5¹
- C₁H₃ClNO₂ Phthalaz 1 one, 2,6-dichloro-4 nitro-3 phenyl 4773¹
- C₁H₃Cl Anthracene, trichloro-, 5421¹, 5¹
- C₁H₃Cl Anthrone, 3,10,10-trichloro-, 3414¹
- C₁H₃ClO₃ Phenanthrenequinone, 1 hydroxy, NaCl deriv., 1243¹
- C₁H₃ClO Benzoophenone, 2,5 dichloro 2 trichloromethyl, 3414¹
- C₁H₃IO Anthraquinone, iodo-, compd with 5NCl₃ 457¹
- C₁H₃NO Phenanthrenequinone, 4 nitro-, 509¹
- C₁H₃NO 3 Anthraquinonesulfonic acid, nitro-94N, 1521¹, P 4559¹
- C₁H₃O 5-Acridenuric 1 nitro-, 4,71¹
- C₁H₃Br₂O 1,4 - Naphthoquinone 2,6,8-tribromo 5 hydroxy, pyroboreacetate 512¹
- C₁H₃BrNO₂ 5 - Acridinecarboxylic acid, 3-bromo-, 294¹
- Pseudosatin, 5-bromo-1 phenyl, 291¹
- C₁H₃Br Anthracene, dibromo-, 454¹
- C₁H₃BrNO Oxindole, 3,3,5 - tribromo 1 phenyl, 293¹
- C₁H₃ClNO Anthraquinone aminochloro-, 945¹, P 1100¹, 1241¹, 1242¹, P 4717¹, P 4592¹, 5431¹
- C₁H₃ClNO₂ 2,1 *pers* Benzooquinoline - 2,3) acetyl chloride, 1,3-diketo-, 3325¹
- C₁H₃ClNO₂ 2 Anthraquinonesulfonic acid, 1 amino-4-chloro-, P 715¹
- C₁H₃ClO 9-Phenanthryloxy, 10-chloro-, 5153¹
- C₁H₃Cl Anthracene, dichloro-, 1252¹, 2959¹, 5421¹
- C₁H₃ClO Anthrone, 10,10-dichloro-, 5414¹
- C₁H₃ClO Benzal *p* - dichloro-, 4256¹
- C₁H₃ClO 2 Anthracenesulfonic acid, 9,10-dichloro- 1252¹, 2993¹
- C₁H₃ClO Benzal dichlorodihydroxy, 1244¹
- C₁H₃N₂O₂ 2,1 *pers* Benzooquinoline - 2,3) acetoneitrile 1,3-diketo-, 3325¹
- C₁H₃N₂O₃ 5-Acridinecarboxylic acid, 1 nitro-, 4271¹
- C₁H₃O₃ See Anthraquinone Phenanthrenequinone
- C₁H₃O₃ 3 α Naphthothiophenol, 6 (carboxymethylmercapto), cyclic lactone, 3341¹
- C₁H₃O₃ Acenaphthenequinone 3 acetyl, 1518¹
- Anthraquinone hydroxy, 364¹, 7¹
- Phenanthrenequinone 1 hydroxy, 1242¹, 3337¹
- C₁H₃O₃ (See also Anthracene)
- Anthraquinone dihydroxy, P 1263¹
- Morphoquinone 3994¹
- 1,2 β Naphthopyran 3 carboxylic acid, 2 keto- 2146¹
- Phenanthrenequinone, 2,4 - dihydroxy, 1244¹
- Quinazolin 2140¹, 5431¹
- C₁H₃O₃ 1,2 β Naphthothiophenedicarboxylic acid 5165¹
- 2,3 Thiophanthenedicarboxylic acid, 5165¹
- C₁H₃O₃ Purpurin, P 1539¹
- C₁H₃O₃ Anthraquinonesulfonic acid, and salts, 4259¹
- C₁H₃O Anthraquinone, 2,3,6,7 tetrahydroxy, 934¹
- C₁H₃O₃ 1,4,5,8 Naphthalenetetracarboxylic acid, P 3669¹, P 4282¹, P 4717¹, P 5077¹
- C₁H₃O₃ Anthraquinonesulfonic acid, and salts, 4259¹
- C₁H₃AsCl₄NO₂ Phenarsazine, 1,6-di-hydro-1 hydroxy-, trichloroacetate, 110¹
- C₁H₃Br Anthracene, 9-bromo-, 5¹
- C₁H₃BrO₃ Thioxanthone, bromohydroxy methoxy, 2724¹, 2725¹
- C₁H₃BrO₃ Thioxanthone, 4 bromo-1 hydroxy 2 methoxy, 10-dioxide 2725¹
- C₁H₃BrNO Oxindole dibromo-1 phenyl, 293¹
- C₁H₃BrNO₂ Phenol, 2,6 dibromo-4 piperonyldiacetate-, 285¹
- C₁H₃BrNO₂ Phthalaz 1 one 2,6 - dibromo-4 amino-3-phenyl 4273¹
- C₁H₃BrO₂ Naphthalene diol, tri bromo-, di acetate 512¹, 946¹
- C₁H₃ClO Benzoic acid *o* (3 chloro 4 by trimethyl) 5421¹

- C₁₄H₉ClNO Oxindole, 3,3 dichloro-1 phenyl, 293³
 Phthalimidine, 2 - (2,6 dichlorophenyl) 4273³
 C₁₄H₉ClN₂O Phthalaz - 1 - one 2,6 dichloro-4' amino-3 phenyl, 4273³
 C₁₄H₉ClN₂O₂ Acetamide, 5 chloro - 2 - (4 chloro 2(?) - nitrophenoxy) 4 - nitro-2705⁴
 C₁₄H₉ClNO₂ *p* - Benzamide, 2,2',5',6 tetrachloro-, 5153³
 C₁₄H₉NO₂ 5-Acridinecarboxylic acid, *Na salt* 294¹
 Anthraquinone, amino-, 4877¹ *compd with SbCl₅*, 4874¹
 Ithalimide, *N* phenyl 2418⁵
 pseudonatin, 1 phenyl, 294¹
 C₁₄H₉NO₂S Anthraquinone 1 amino 2 mercapto-, 2722²
 2(1) Thionaphthenone, 1 (*p* hydroxy phenylimino), 5165¹
 C₁₄H₉NO₂ Anthraquinone, aminohydroxy P 2005²
 Benzofuran, 4-*n* tro-1 phenyl 4883¹
 C₁₄H₉NO₂ 2(1) - *para* Benzosquinoline 2 (3) acetic acid, 1,3 diketone, 3325²
 Quinazolin, 5-amino-, 3648⁴
 C₁₄H₉NO₂S Anthraquinonesulfonic acid, amino-1821¹, P 5178¹ *Na salt*, 5421^{1,4}
 C₁₄H₉NO₂ 2,7 Carbazolecarboxylic acid, 1,8-dihydroxy, P 566²
 C₁₄H₉NO₂S Benzoic acid, 5 nitro 2 *p* sulfobenzoyl, 1821¹ P 4717²
 C₁₄H₉NO₂S Anthraquinonesulfonic acid amino-, *Na salts*, 5421^{1,4}
 C₁₄H₉N₂O₂ 5 - Acridinecarboxamide, 1 nitro- and sulfate, 4271¹
 C₁₄H₉N₂S Diphenylamine, *p p*-dithiocyanate P 1258¹
 C₁₄H₉N₂O₂ Ethanol 1 (2,4 dimitrophenyl) 2 (2,4,5-trinitrophenyl) 508²
 C₁₄H₉O₂ 9 Phenanthrolyl, 5153³
 C₁₄H₉ (See also *Anthracene Phenanthrene*)
 Fluorene 9 methylene 942¹
 Tolan 2887⁴, 4256¹, 5830¹
 C₁₄H₉AsN₂O₂S 2 Benzimidazolesulfonic acid 5,5 arsenobis- 703³
 C₁₄H₉BrClO Acetophenone *o* bromo-*o* chloro-*o* phenyl, 491¹
 C₁₄H₉BrNO Oxindole bromo 1 phenyl, 293^{3,4}
 C₁₄H₉BrNO₂ Δ^2 Cyclohexadienone, 2 benzoyl 6 bromo 4 methyl 4 nitro-, 3634¹
 C₁₄H₉BrNO₂ Naphthalic acid, 4 bromo-5-nitro di Me ester 1518¹
 C₁₄H₉Br₂ Fluorene 9 bromo 9 (bromo-methyl) 511¹
 C₁₄H₉Br₂NO₂ Acetamide, 2 bromo 4 (*p* bromophenyl)-6-nitro- 5673¹
 C₁₄H₉Br₂O₂ Naphthalene 1,5 - bis(bromo-acetyl), 5167²
 C₁₄H₉Br₂O₂ Naphthalenediol dibromo- di acetate, 512³, 945⁴
 C₁₄H₉CaO₂ Calcium benzoate, P 1537¹
 Salicylaldehyde, Ca salt, 2131¹
 C₁₄H₉ClHgMoN₂S₂, 3587¹
 C₁₄H₉ClNO Anthrone, 3 amino 2-chloro, P 5041¹
 C₁₄H₉ClNO₂ Oxamyl chloride, *N, N*-diphenyl-, 294¹
 C₁₄H₉ClN₂O₂ Benzamide, 4 - chloro *N* methyl-3 5-dinitro- P 1100²
 C₁₄H₉ClN₂O₂ Acetamide, 2 (chloromitrophenoxy)-4 nitro-, 2705⁴
 C₁₄H₉Cl₂ Ethylene, 1,1 bis(*p*-chlorophenyl), 4239¹
 C₁₄H₉ClN₂O Phthalimidine, 2 (4 amino 2 6 dichlorophenyl), 4273³
 C₁₄H₉ClN₂O₂ Acetamide, 5 - chloro - 2 (*p* chlorophenoxyl)-4 nitro-, 2705⁴
 C₁₄H₉ClO Benzophenone, dichloromethyl 5414^{1,4}
 C₁₄H₉ClO₂S₂ Acetyl chloride *o, o* (1 5-naphthylenedithio)bis 3341¹
 C₁₄H₉ClNO Acetamide *o* trichloro *N, N* di phenyl 293³
o-Benzotoluene, 3,5,6 trichloro-, 1501¹
 C₁₄H₉ClO₂ Glutamic acid *o* chloro γ, γ dihydroxy - β methoxy, γ lactone (3 4 5 trichloro 2,6 dimethoxy phenyl) ester, 1229⁴
 C₁₄H₉F₂O₂S₂ *m* Toluene sulfonic acid, 5 (fluorosulfonyl) - 2 (and 4) hydroxy bisol cyclic sulfonyl 284¹
 C₁₄H₉AlN₂O₂S Benzothiazole 5-sodo-1 methyl amino- picrate 4581¹
 C₁₄H₉AlN₂O₂S Benzothiazoline 1-imino-5-sodo 2 methyl, picrate, 4881¹
 C₁₄H₉MgO₂ + 2H₂O Salicylaldehyde Mg salt 2131¹
 C₁₄H₉N, *o*-Benzylene-1 3 benzimidazole, 702¹
 Pseudoisodolobenzimidazole, 702¹
 C₁₄H₉N₂O Furan, 3 4-diphenyl 956² 3337²
 Oxadole diphenyl 3338^{1,2}
 4(3) Quinoxaline, 3 phenyl, 2057²
 C₁₄H₉N₂O₂ 2 4 1 Benzothiazine 1 one 3 amino-, 3002¹
 2,4(1,3) Quinoxalinedione 3 phenyl 2 thio- 3001¹
 C₁₄H₉N₂O₂ Anthraquinone diamino- and sul fate, P 3672^{1,4}
 1,2 3 6 - Dioxidiazine 4 5 diphenyl 956²
 Pseudonatin 1 phenyl, oxime, 294¹
 C₁₄H₉N₂O₂ Acenaphthenequinone 3 acetyl diaxime 1518¹
 2,1 *para* Benzosquinoline 2(3) acetamide, 1 3-diketo-, 3325²
 C₁₄H₉N₂O₂ 5(4) Isoxazolone, 4 benzamido-3 (2 furyl), 2143³
 2 5-Piperazinedione, 3,6-disulfo-, 1508¹
 Quinazolin 5,8-diamino-, 3648⁴
 C₁₄H₉N₂O₂ Cresol, 3,5-dinitrobenzoate, 2982²
 Δ^2 - Cyclohexadienone, 2 - benzoyl - 4 methyl 4 6-dinitro-, 3634¹
 Salicylic acid asobis-, *di Na salt*, P 1684¹
 C₁₄H₉N₂O₂ Guaiacol 3 6 dinitrobenzoate 2982²
 C₁₄H₉N₂O₂S Benzothiazole, 5 - amino 1 - (2 4 dimitrophenyl) 4 methyl, 1250²
 C₁₄H₉N₂O₂ Piperonal 2,4 - dimitrophenyl hydrazone, 3320¹
 C₁₄H₉N₂O₂ Acetophenone, *p* - (2,4,6 - trinitro-amino), 4432⁴
 C₁₄H₉N₂O₂ Bibenzyl, 2,2',4,4' tetranitro-, 508²
 C₁₄H₉N₂O₂ *o, o'* Benisole, 4,4',6,6' tetra nitro- 5157¹
 C₁₄H₉N₂S Benzimidazole, 2,2' - dithiois-, and HCl, 703³
 C₁₄H₉O Anthrol, 603³, 5897²
 Phenanthrol, 603³
 C₁₄H₉O₂ (See also *Benzol*)
 9 10-Anthradiol, 5897²
 Anthraquinone, 1,4 dihydro-, P 965²

- Anthrone hydroxy 513¹
 Δ C₁₄clohexad enone, 4,4' acetylenic, 502²
 1,1' ornecapal oxalic acid 5416¹
 1,4- α -naphthopyrone 2-methyl, 4267¹
 Phenanthrenediol 503², 1241³
 C₁₄H₁₀O.S Thioxanthone, hydroxymethyl, 77⁴
 C₁₄H₁₀O.S₂ Benzoyl disulfide 503¹
 C₁₄H₁₀O₂ See also Benzoin anhydride)
 2,6-9 Anthranol, 1519²
 Benzoic acid o-benzoyl, 506¹
 Fluorencarboxylic acid, 2 hydroxy, P 5177¹
 Naphthofuranol acetate 3339²
 C₁₄H₁₀O₂S₂ 3- α -Naphthothiophenol, 6-(carboxy methylmercapto) 3341¹
 C₁₄H₁₀O₂ (See also Benzoyl peroxide)
 Benzil dihydroxy, 1243¹, 3991¹
 Diphenic acid 940¹, 4254¹
 Oxalic acid di Ph ester 3625¹
 C₁₄H₁₀O₂S 9-10 Anthradol, acid sulfate, P 604
 Naphthaleneglyoxylic acid (carboxymethyl mercapto), 5165¹
 C₁₄H₁₀O₂ Benzoic acid, 4-hydroxy 3,4'-oxybis-, 960¹, 2731¹
 Des N desmethylrobinedicarboxylic acid 2731¹
 C₁₄H₁₀O₂S Benzoic acid o-(p-sulfobenzoyl), P 215¹, P 2736¹, P 4558¹
 C₁₄H₁₀O₂S Salicylic acid, 5,5 sulfonoyl-bis- 2127¹
 C₁₄H₁₀BrF₂N₂O₂ 5 Nitro 4,4' bis (o-toluene-diazonium borofluoride) 4253¹
 C₁₄H₁₀Br Lthylene 1 (o bromophenyl) 1-phenyl 4239¹
 Fluorene 9 bromo-9-methyl 511¹
 C₁₄H₁₀BrCl₂N₂O₂ Vanillin dichloro, p bromophenylhydrazine 94¹
 C₁₄H₁₀Br₂N₂O Phthalimide 2 (4 amino 2-bromophenyl) 4273¹
 C₁₄H₁₀Br₂N₂O₂ Acetanilide, 2 bromo 6-nitro-4-phenyl 5673¹
 C₁₄H₁₀Br₂N₂O₂ Acetanilide 2 (p bromophenoxy)-4 nitro-, 2705¹
 C₁₄H₁₀Br₂N₂S Benzothiazole, 1 p bromoamino-5-methyl, 104¹
 Benzothiazole 1 (p bromo V methyl amino), 104¹
 C₁₄H₁₀Br₂O₂ Benzophenone 3 bromo 2 hydroxy 5-methyl 3634¹
 C₁₄H₁₀Br₂O₂S Acetic acid, (3 bromo-1 acenaphthenylmercapto), 5420¹
 C₁₄H₁₀Br₂O₂ Quinol, 2-benzoyl-6 bromo 4-methyl, 3634¹
 C₁₄H₁₀Br₂O₂ 1,2 Naphthalenediol, 3 bromo-diactair 94¹
 C₁₄H₁₀Br₂N₂O₂ Benzotoluene, 4',6 - dibromo-4665¹
 C₁₄H₁₀Br₂N₂O₂ Diphenylamine, 2,5 dibromo 4-ethoxy 2,4-dinitro-, 2367¹
 C₁₄H₁₀Cl Ithylene 1 - (chlorophenyl) 1-phenyl, 4239¹, 4239¹
 C₁₄H₁₀Cl₂N₂O₂ Acetanilide, 2 (chlorophenoxy)-4 nitro-, 2706¹
 C₁₄H₁₀Cl₂O₂ Acetophenone, p-chloro- α -phenyl, 1524¹
 Acetophenone α -(p-chlorophenyl), 1,24¹
 Nitrophenone, 2-chloro-5-methyl 5414¹
 C₁₄H₁₀Cl₂O₂ Benzophenone, p-chloro-p methoxy, 4,32¹
 C₁₄H₁₀Cl₂O₂ Acetophenone α -(4-odophenoxy), dichloride, 1504¹, 424¹
 C₁₄H₁₀Cl₂NO Acetanilide, α , α dichloro - V, \ diphenyl, 293¹
 p-Benzotoluene, 3',5'-dichloro-, 1501¹
 C₁₄H₁₀Cl₂NO₂ Acetanilide, 5-chloro - 2 (p-chlorophenoxy), 2705¹
 C₁₄H₁₀Cl₂O₂P Ethylenephosphonic acid, 2,2 bis-(p-chlorophenyl), 4239¹
 C₁₄H₁₀Cl₂O₂ p-Cresol, 2-chloro 6-(2,6-dichloro-p-toloxyl), 5668¹
 C₁₄H₁₀Cl₂O₂ 2381¹
 C₁₄H₁₀F Ethylene, 2 fluoro-1,1-diphenyl, 3642¹
 Ethylene, 1-(o-fluorophenyl)-1-phenyl, 4238¹
 C₁₄H₁₀F₂NO₂ m,m' Bitolyl, 4,4'-difluoro-6 nitro-, 4253¹
 C₁₄H₁₀O₂ Acetophenone, α -(4-odophenoxy), 1503¹, 4245¹
 C₁₄H₁₀I₂N₂ 3 Iodo 4-methyl-5,6-benzoquinolinium iodide, 4269¹
 C₁₄H₁₀LiO₂ 2380¹
 C₁₄H₁₀Mo₂N₂O₂S₂ 3587¹
 C₁₄H₁₀Mo₂N₂O₂S₂Zn, 3587¹
 C₁₄H₁₀Mo₂N₂S₂ + 6H₂O, 3587¹
 C₁₄H₁₀N Acridine, 3-methyl, P 2859¹
 2-Anthranine, 947¹
 C₁₄H₁₀NO 5,6-Benzoquinoline-3(4)-one, 4-methyl, 4269¹
 1 pers Naphthodanone, 3-amino 6(or 7) methyl, P 4556¹
 C₁₄H₁₀NO₂ 5-Acridinocarboxylic acid, 297¹
 Benzil, oxime 290¹
 Stilbene, p nitro-, 4456¹
 C₁₄H₁₀NO₂ Acetophenone, α -(p-nitrophenyl), 1524¹
 Isatic acid N phenyl, α salt, 294¹
 Oxamic acid, N, V-diphenyl, 294¹
 C₁₄H₁₀(NO₂)₂ Acetophenone, p-(p-nitrophenylmercapto), 2127¹
 Benzosulfonazole, 1-benzoyl-1,2-dihydro-, 928¹
 C₁₄H₁₀(NO₂)₂ Acetophenone, p-(p-nitrophenoxy), 2705¹
 Acetophenone, α -(5-nitrosalicyl), 4883¹
 Alizarin, compd with N₂H₄, 4261¹
 Benzoic acid, p-(o-hydroxybenzamide), P 3670¹
 -, o-nitro-, benzyl ester, 924¹
 -, o-(6-nitro-o-tolyl), 505¹
 Benzyl alcohol, nitro-, benzoate 92¹
 2-Furanacrylic acid, α -benzamide-, 1508¹, 2142¹
 C₁₄H₁₀NO₂S Benzoic acid, 5-amino-2 p sulfobenzoyl, P 4717¹
 C₁₄H₁₀N₂ Quinazoline, 4-amino-, and -HCl, 5699¹
 1,2,4 Triazol-3-ol, 1,5-diphenyl, 4614¹
 C₁₄H₁₀N₂O₂ Benzo-1,3,6-triazapipin 2(1) one, 4-amino-, 4266¹
 C₁₄H₁₀N₂O₂ Δ^2 -1,2-Diazetine, 1-(p-nitrophenyl)-3-phenyl, 4879¹
 C₁₄H₁₀N₂O₂ 3-Benzothiazole 5-amino 4-methyl 1 (nitrophenyl), 1250¹
 Benzothiazole, 4-methyl-1-(p-nitroamino), 104¹
 C₁₄H₁₀N₂O₂ Compd, decomps 200¹, from 3,6-endoxo Δ^2 -tetrahydrophthalic anhydride and PhN₂, 1507¹
 C₁₄H₁₀N₂O₂ Acetanilide, 4 nitro 2-(p-nitrophenoxy), 2705¹
 C₁₄H₁₀N₂O₂S Benzenesulfonic acid, nitro-, piper-oxidenehydrazide, 2702¹
 C₁₄H₁₀N₂O₂ Oxindole, 3-amino-, picrate, 1524¹

- C₁₄H₁₀NaO Ethanol, 2,2-diphenyl, Na deriv, 4254¹.
- C₁₄H₁₀O, Rb, 2380²
- C₁₄H₁₀ (See also Stilbene)
- Ethylene, diphenyl 923¹, 5830¹
- Isostilbene, 4239¹, 5403¹
- C₁₄H₁₀As₂N₂O₅ 5 - Benimidazolearsonic acid 2,2'-dithiois-, III, 703¹
- C₁₄H₁₀Br₂N₄ 4,4' - Bi[*o* - toluenediazonium borofluoride], 4253¹
- C₁₄H₁₀BrClN₂O₂ Vamulan, chloro-, *p* bromophenylhydrazine, 941¹
- C₁₄H₁₀BrN Benzylamine, *N* benzal *p* bromo-, 4243¹
- Benzylamine, *N* *p*-bromobenzal 4243¹
- C₁₄H₁₀BrNO₂ *p*, *p'* - Bitolyl, 2 bromo 2 nitro-, 2425¹
- C₁₄H₁₀BrNO₂ 1 - Naphthol, 2 - amino 4 bromo-, di Ac deriv, 915¹
- C₁₄H₁₀BrNO₂ Butyropheneone, *p* bromo *p* 2 furyl-*γ* nitro-, 506¹
- C₁₄H₁₀BrNO₂ Indoxyllic acid 1 acetyl 6 bromo-Me ester, acetate, 1522¹
- C₁₄H₁₀Br₂ Bibenzyl *p*, *p* dibromo- 5416¹
- C₁₄H₁₀Br₂N₂O₂ *p*-Phenetidine, dibromo-, picrate, 286¹, 1517¹
- C₁₄H₁₀Br₂O₂ Isodurene, 4,6 bis(tribromoacetyl) 5404¹
- C₁₄H₁₀ClN Benzylamine, *N* benzal *p*-chloro- 4243¹
- Benzylamine, *N* *p*-chlorobenzal 4243¹
- C₁₄H₁₀ClNO Acetanilide, chlorophenyl 1860¹
- Acetanilide, *o*-(*p*-chlorophenyl) 4860¹
- C₁₄H₁₀ClNO₂ Acetanilide, *o*-(chlorophenoxy) 2703¹, 4
- Anthranilic acid, *N* (5-chloro-*o*-tolyl), 2146¹
- p* *p'* Bitolyl 2-chloro-2 nitro-, 2425¹
- C₁₄H₁₀ClNO₂ Diphenylaminocarboxylic acid, 3 hydroxymethyl-4-chloro- *P* 4283¹
- C₁₄H₁₀ClNO₂ 2 Naphthol, 2-chloro-4 (chloroacetamidomethyl)hydroxy, 5399¹, 5400¹
- C₁₄H₁₀ClO₂P Ethylenephosphonic acid, 2 (chlorophenyl) 2 phenyl and salts 4239¹, 4
- C₁₄H₁₀ClO₂P Dichlorocatechylphosphorus chloride 501¹
- C₁₄H₁₀Cl₂ Dibenzyl, *α*, *α'* dichloro-, 4526¹
- C₁₄H₁₀Cl₂O Benzohydrol, *α* (dichloromethyl), 2112¹
- Benzohydrol, *p* *p'* dichloro-*α*-methyl 4239¹
- C₁₄H₁₀Cl₃O₂ Isodurene, 4,6 bis(trichloroacetyl) 5404¹
- C₁₄H₁₀CoN₂O₂ Salicylaldehyde oxime, Co deriv, 1506¹
- C₁₄H₁₀FO₂P Ethylenephosphonic acid, 2 (*o*-fluorophenyl) 2 phenyl, 4239¹
- C₁₄H₁₀F₂ *m*, *m* Bitolyl, 4,4' difluoro-, 4233¹
- Ethane 1,2-difluoro-1 1 diphenyl, 3642¹
- C₁₄H₁₀FI₂O₂ S₂ 3,3' - Bi - *p* toluenesulfonyl fluoride, 283¹
- C₁₄H₁₀FI₂O₂ S₂ 3,3' - Bibenzenesulfonyl fluoride 4 4-dimethoxy, 283¹
- C₁₄H₁₀HgO₂S Benzene acid, *o*-(benzylmercaptomer capto), 1821¹, 4907¹
- C₁₄H₁₀IN Benzylamine, *N* benzal *p*-iodo-, 4243¹
- Benzylamine, *N* *p*-iodobenzal 4243¹
- C₁₄H₁₀INO₂ Acetanilide, *o*-(*p*-iodophenoxy), 2703¹, 4
- p* *p'* Bitolyl, 2 iodo-2 nitro-, 2425¹
- C₁₄H₁₀N₂ Acridine, 5 amino-3 methyl, *P* 1950¹
- Δ¹,2 Diazetane, 1,3-diphenyl, 4876¹
- 9 10-Phenanthrylenediamine, 3343¹
- C₁₄H₁₀N₂NO₂ *o*-Cresol, *α* amino-, Na salt, 2131¹
- C₁₄H₁₀N₂NO₂ Salicylaldehyde oxime, Ni, deriv, 1506¹
- C₁₄H₁₀N₂O Benzyl alcohol, *o*-2 benzimidazolyl 702¹
- Nicotinonitrile, 1,2 dihydro 2 keto 1 6 dimethyl-4 phenyl, 2145¹
- , 1,2 dihydro 2 - ketomethyl *p* tolyl 4831¹, 4832¹
- 8 ethyl 1 2 dihydro 2 keto 4 phenyl, 2145¹
- C₁₄H₁₀N₂O₂ Acetic acid, (4 keto Δ¹,2 cyclohexylidene)phenylhydrazide 5151¹
- Glyoxime, diphenyl 261¹, 1459¹
- Oxamide 1504¹
- Phenol *p* phenylazo- acetate 5151¹
- o*-Toluidine *V* *m* nitrobenzal 1230¹
- C₁₄H₁₀N₂O₂S Anthranilic acid *V* (phenylthio carbonyl) 3001¹
- C₁₄H₁₀N₂O₂S 4 4 Bi *m* cresol, dithionitrile 3618¹
- C₁₄H₁₀N₂O₂Zn + H₂O *o*-Cresol *α*-amino-, 70 salt 2131¹
- C₁₄H₁₀N₂O₂ Acetanilide 2 nitro-4 phenyl 5677¹
- 5 Acridinocarboxamide, 5 10 dihydro 5 10-dihydroxy 4271¹
- Anthranilic acid *V* (pyridylcarbonyl), Me ester 3000¹
- Benzoic acid *p* (*p* aminobenzamido) 491¹
- Benzophenone *p* nitro-, oxime, Me ether, 5673¹
- Pyruvic acid, 2 fural phenylhydrazine 4851¹
- C₁₄H₁₀N₂O₂ Acetanilide, nitrophenoxy 1816¹, 2705¹
- Bibenzyl, *p* *p*-dimetro- 508¹
- p* *p'* Bitolyl 2 2-dimetro- 2425¹
- C₁₄H₁₀N₂O₂S₂ 1(2) 2 Bibenzisosulfonazole 1',2-dihydro 928¹
- Disulfide bis(*o*-nitrobenzyl) 2126¹
- C₁₄H₁₀N₂O₂S *p* Toluenesulfonamide 2 formyl 4' nitro-, *P* 964¹
- C₁₄H₁₀N₂O₂S *p* *p* Diamole 2 2-dimetro- 4873¹
- C₁₄H₁₀N₂O₂S₂ Ethane, *s* bis(nitrophenyl sulfonyl), and hydrochlorides 5397¹
- C₁₄H₁₀N₂O₂S₂ Ethane, *s* bis(nitrophenyl sulfonyl), 5392¹
- C₁₄H₁₀N₂S Benzothiazole, 1 amino 5 methyl 104¹
- Benzothiazole, 1 *N* methylamino-, 104¹
- , 1 *p* tolueno-, 104¹
- C₁₄H₁₀N₂S₂ Benzamide, *N*, *N'* - thiois(thio- 4854¹
- C₁₄H₁₀N₂O Furazan, 3,4-diamino 2999¹
- C₁₄H₁₀N₂O₂ 2,3 - Quinoxalinedinitrile 1,4 diacetyl 1,2 3,4 tetrahydro- 957¹
- C₁₄H₁₀N₂O₂ Acetophenone, 2 4-dinitrophenyl hydrazine, 2132¹
- α* Tolualdehyde, 2 4 - dimitrophenyl hydrazine 3320¹
- C₁₄H₁₀N₂O₂ Amsaldehyde 2 4 dimitrophenyl hydrazine 3320¹
- C₁₄H₁₀N₂S 1 2 3 Benzotriazole - 1 - carboxotoluene thio-, 4280¹
- 1 3,4 Triazole 2-mercaptan, 5 amino 1 phenyl, 1504¹
- C₁₄H₁₀N₂O₂ Ethanone, 1 (*p* - nitrophenylazo), *p* nitrophenylhydrazine, 932¹
- Glyoxal *p*-nitrophenylsazone, 932¹
- C₁₄H₁₀O Benzophenone, *o*-methyl, 8414¹
- Compd, *m* 85¹, from reduction of BaH₂, 4544¹
- Desoxybenzoic, 1524¹, 3641¹
- Dibenzofuran 2,7 dimethyl, 2425¹

Ethylene oxide α β -diphenyl 289^aKetone, 3 acenaphthenyl methyl, 1018^a1- α -Naphthindanone 5-methyl P 1260^aC₁₁H₁₀O₂: See also BROWNAcetophenone β hydroxy- α phenyl 1524^a— α (β hydroxyphenyl), 1524^a9 10-Anthradiol, 1,4-dihydro-, P 965^aAnthraquinone 1,4,5,8 tetrahydro- P 2442^aBenzoic acid, benzyl ester 2039^a 3311^r Δ^1 2 Butenone, 4 (3 hydroxy 2 naphthyl) 2146^a4 3 β Naphthopyrone tetrahydro - 9-hydroxy 1 methyl- 5247^a β β -Stilbenediol, 502^a, 503^aC₁₁H₁₀O₂S Acetic acid, (1 acenaphthenylmercapto), 5410^aC₁₁H₁₀O₂ Anthraquinone, 1,2 3 4 - tetrahydro-6-hydroxy 3993^aBenzoic acid 2143^a, 3663^a α -Toluic acid, α salicyl, 512^aC₁₁H₈O₂S Hydrobenzoin sulfite, 3964^aC₁₁H₁₀O Acetophenone, 2 4 dihydroxy - α (β hydroxyphenyl) 5675^a1 7 Naphthalenedicarboxylic acid, di Me ester 298^{7r}Quinazolin 5,6 7 8-tetrahydro- 5419^aC₁₁H₁₀O₂S Acetic acid, α ω (1 5 naphthalene dithiol)bis- and di K salt 3341^{1,2}C₁₁H₁₀O₂S Acetic acid, (1 carboxymethylmercapto) 2 naphthoxy 3330^aBenzoic acid 2 methoxy 5-(phenylsulfonyl) 2127^a1 Phenol 4 sulfonic acid Me ester, benzoate 3323^aC₁₁H₁₀BrN₂O Anisaldehyde 3 bromo - 2 hydroxy phenylhydrazine, 287^aC₁₁H₁₀N₂S Carbanilide, bromomethylthio- 104^{1,2}Pseudoresorcin, α - (β bromophenyl) γ methyl β -phenylthio-, 104^aC₁₁H₁₀BrN₂O Benzaldehyde, m - bromo-, 4 ambroseumcarbazone, 3634^aC₁₁H₁₀BrO Ether, benzyl 2 bromo- β -tolyl 1635^aXylenol bromophenyl-, 93^a 3635^aC₁₁H₁₀BrO S Acenaphthene sulfonic acid bromo-, Et ester 1518^aC₁₁H₁₀BrO₂ Naphthalene 2 4 6 tribromo 1 5-dithoxy, 512^aC₁₁H₁₀ClN₂O₂ Ihenol β phenylazo-, compd with AcCl 3321^aC₁₁H₁₀ClN₂O Benzaldehyde, chloro-, 4-amino-semicarbazone, 3634^aC₁₁H₁₀ClN₂O Pyridine, 6 chloro 2 3 4 tri methyl-, picrate 3652^aC₁₁H₁₀N₂O Benzylamine fluoro- N methyl picrate, 925^a 926^aC₁₁H₁₀FO Benzohydrol, α fluoro α methyl 4239^aC₁₁H₁₀FS Sulfide benzyl m fluorobenzyl, 926^aC₁₁H₁₀IO Acetic acid (β iodophenyl)phenylhydrazide, 1227^aC₁₁H₁₀Acridan, 10-methyl, 297^a9-Fluorylamine, γ methyl, 511^aC₁₁H₁₀NO Acenaphthene, 1 acetamido-, 3955^aAcetanilide, β -phenyl, 2712^aAcetophenone, α -(β -aminophenyl), 1524^aDemoxybenzoic, oxime, 3329^a Δ^1 - 1 - Tropenone, 1 - (5 - methyl - 2 pyrrol) 3-phenyl, 3008^aC₁₁H₁₀NO₂ Acetanilide β phenoxyl, 1816^aAcetanilide, β salicyl, 2712^aAcetophenone, α -salicyl, oxime, 4882^aAmide from capric acid, 258^aAnthranilic acid, benzyl ester, -HCl, 92^aAnthraquinone, 6 - amino - 1,2,3,4 - tetrahydro-, 3993^aBenzamide, 2134^aBenzoic acid, amino-, benzyl ester, -HCl, 92^aBenzyl alcohol, amino-, benzoate, and HCl, 92^aCresol α immunomethoxy- α phenyl, 1231^aPiperonylamine, N phenyl, 1817^a α -Toluidine, α' hydroxy, 1818^a α -Toluidine, α -amino-, 293^aC₁₁H₁₀NO₂S Acetic acid, (2 amino - 5-phenyl phenylmercapto), 2999^aC₁₁H₁₀O₂S Ethane 1 (β - nitrophenylmercapto) 2 phenylmercapto-, 5392^aC₁₁H₁₀NO₂ Carbanilide, β -(β -tolyl)phenyl ester, P 2814^aDiphenylaminocarboxylic acid, 3 hydroxy methyl-, P 4283^a3 Pyrrolol, 1 acetyl 5 phenyl, acetate, 1827^a α Resorcylamide 4-methyl, 288^aC₁₁H₁₀NO₂ Acetophenone, 2,4 dihydroxy α (β -hydroxyphenyl), oxime, 5675^aBenzene 1 (and 4) (benzyloxy) 4 (and 1) methoxy 2 nitro-, 2127^a β β' Baunsol, 2 nitro-, 4873^aButyropheneone, β 2 furyl- γ nitro-, 506^aFuro[2,3 β]quinoline, 4,7 5 trimethoxy, 298^aIsoskimmamine, 295^a3 Pyrrolicarboxylic acid 1 - (carboxy phenyl) 2 5-dimethyl, 941^a, 5410^aSulmmamine, 295^aC₁₁H₁₀NO₂S Ethane, 1 (β nitrophenylsulfonyl) 2-(phenylsulfonyl), 5392^aC₁₁H₁₀NO₂S Ethane, 1 (β nitrophenylsulfonyl) 2-(phenylsulfonyl), 5392^aC₁₁H₁₀N₂O Pyrrolo[2 3 - β]pyridazine 4(3) one 2 7-dimethyl 5-phenyl, 3006^aC₁₁H₁₀N₂O₂ Carbanilide, β formylthio-, oxime 3323^aC₁₁H₁₀N₂O₂ Acetophenone, β -nitrophenylhydrazine, 2132^aBenzophenone, β hydroxy, semicarbazone, 689^a β Tolualdehyde β nitrophenylhydrazine, 4243^aC₁₁H₁₀N₂O₂ Carbanilide β methyl β nitrothio-, 104^aC₁₁H₁₀N₂O₂ Anisaldehyde, β nitrophenylhydrazine, 4243^a2 Naphthaldehyde 3 hydroxy acetate, semicarbazone, 2146^aC₁₁H₁₀N₂O₂ Anisaldehyde, 2 hydroxy β nitrophenylhydrazine, 1507^aBenzaldehyde, 4 hydroxy 2 methoxy, β -nitrophenylhydrazine, 1507^aPhenethylamine, γ (2 4 dinitrophenyl), 8405^a2,5 - Pyrrolicarboxylic acid, 3 - (β β -diarylamino) 4 methyl, Et Me ester, 962^aC₁₁H₁₀N₂O₂ Xylenol, 4 (2,4 dinitroanisole), 930^a, 2424^aC₁₁H₁₀N₂O₂ Benzene, ethyl, picrate, 1815^aXylene, picrate 1815^aC₁₁H₁₀N₂O₂ 2,5-Xylenol picrate 2813^aC₁₁H₁₀N₂S Benzothiazole, 3-amino 1 (aminophenyl)-4 methyl 1250^a

- C₁₄H₁₁N₃O 1,3,4 Oxadiazol 2(3) one, 4,5 - dihydro-5-phenylhumno-, phenylhydrazone 3634¹
- C₁₄H₁₁N₃O₂ Ethanone, 1 (β nitrophenylazo) phenylhydrazone, 2125¹
- C₁₄H₁₁N₃O₂ Benzaldehyde, nitro- 4 aminosemicarbazone, 3634¹ 2
- C₁₄H₁₁O₂Sb Benzoic acid stibono-, benzyl ester Na salt, 92¹
- C₁₄H₁₁ (See also Bibenzyl)
Compd from α amyrin 2920¹
Ethane α-diphenyl, 5830¹
Naphthalene, 7 isopropenyl 1 methyl 2957¹
- C₁₄H₁₁AsNO Phenarsazine 1 ethyl 1 8 dihydro, 1-oxide 1831¹
- C₁₄H₁₁AsNO₂ = Toluene-sulfonic acid α benzamido-4 hydroxy P 714¹
- C₁₄H₁₁As N₂NaO₂S₂ See *Sulfarsenol*
- C₁₄H₁₁AsN₂NaO₂S₂ See *Sulfarsphenamine*
- C₁₄H₁₁AuBr Dibenzylgold bromide 4220¹
- C₁₄H₁₁AuCl Dibenzylgold chloride 4220¹
- C₁₄H₁₁BrNO₂ Benzylamine β bromo benzoate 4243¹
- C₁₄H₁₁BrNO₂ 1 - Penton 3 ol 1 bromo 3 ethyl, β nitrobenzoate 73¹
- C₁₄H₁₁BrO₂ Naphthalene 2 6-di-brom 1 5-di-ethoxy- 512¹
- C₁₄H₁₁BrPb Plumbane, dibromodi α tolyl 2688¹
- C₁₄H₁₁BrSn Stannane dibenzyl-dibromo- 3976¹
- Stannane dibromodi β tolyl 3976¹
- C₁₄H₁₁ClNO₂ Benzylamine β chloro benzoate 4243¹
- C₁₄H₁₁ClN₃ + H₂O See *Acridiazine*
- C₁₄H₁₁ClN₃O₂ Benzenesulfonanilide 4 chloro 3 dimethylamino-2 nitro- 289¹
- C₁₄H₁₁ClN₃O₂S Benzenesulfonanilide 4 chloro 4-dimethylamino-2 nitro- 289¹
- C₁₄H₁₁Cl₂O₂ α α Toluenediol 2 3 dichloro- 4 - hydroxy 5 methoxy, triacetate, 94¹
- C₁₄H₁₁Cl₂Pb Plumbane dichlorodi α tolyl 5407¹
- C₁₄H₁₁Cl₂Sn Stannane dibenzyl-dichloro- 3977¹
- C₁₄H₁₁Hg Mercury dibenzyl 3327¹, 3975¹
Mercury ditolyl, 3975¹ 5830¹
- C₁₄H₁₁Hg₂O₂ Compd from ethynylbenzene and Hg(OAc)₂, 71¹
- C₁₄H₁₁N₁ Benzaldehyde methylphenylhydrazone, 92¹
2,9 Pyridindole 1 ethyl 9 methyl, 301¹
—, 1 isopropyl, 301¹
—, 1 propyl 301¹
Quinoxaline 1 2 3 4 tetrahydro 3 phenyl 2957¹
α α-Stilbenediamine, 4570¹
- C₁₄H₁₁N₂O₂ Acetamide β (aminophenyl) 2712 P 3671¹
Anisaldehyde phenylhydrazones, 1507¹
Phenetole, phenylazo- P 3363¹
10 Pseudoscutolobenzamidoazalone, 5b 6 7 8 9 9a hexahydro-, 701¹
4 - Quinoxalinal 1 2,3,4 tetrahydro 3 phenyl 2957¹
- C₁₄H₁₁N₂O₂ Acetamide, 2 amino 4 phenoxy 1816¹
Benzaldehyde 4 hydroxy 2 methoxy phenylhydrazones, 1507¹
Phenol β (β phenylhydrazine) acetate 1227¹
- α-Toluamide α amino-α hydroxy-, 702¹
= Toluidine 6 (2 nitro β tolyl) 2425¹
- C₁₄H₁₁N₂O₂S₂ Acetamide α α (1 5 naphthylenedithio)bis 3341¹
- C₁₄H₁₁N₂O₂ Anisole β β azoxybis 855¹ 56.0¹ 5607¹
- Centisaldehyde 4 methoxy phenylhydrazones 3380¹
- l tyline (4 quinolylcaronyl) 11 ester 4000
- Quinolone 4 diacetyl-amino 6 methoxy 954¹
- 8 Quinolone 7 acetamido- 7 methyl acetate and acid sulfate 944¹
- β Resorcyllaldehyde 7 methoxy phenylhydrazones 3380¹
- C₁₄H₁₁N₂O₂ 2 Furapropropion c acid β amino α benzamide 2143¹
- 1(2) Pyrimidipicetic acid 3 6 dihydro- 2 6 diketo 3 methyl 4 phenyl Me ester 516¹
— 3 6 dihydro 2 6 diketo 4 phenyl 11 ester 516¹
- 1 Pyrrolepropanol β n toluenozoate 18.5¹
- C₁₄H₁₁N₂O₂S β Toluene-sulfonotoluene nitro 199¹
- C₁₄H₁₁N₂ Etbanone 1 phenylazo phenylhydrazones 2125¹
- Clyoxal phenylsazone 1488¹
- 2 Pyrrolealdehyde 4 cyano 3 5 di-methyl phenylhydrazones 198¹
- C₁₄H₁₁N₂O Benzaldehyde 4 amino-semicarbazone 3633¹ 3634¹
- C₁₄H₁₁N₂O₂ Oxalic acid bis(phenylhydrazide) 1504¹
- Salicylaldehyde 4 amino-semicarbazone, 3634¹
- C₁₄H₁₁N₂O Picrate m 150 60° of pyridine base b 188 90° 3631¹
- C₁₄H₁₁N₂O₂ Aniline 3 5 dimethoxy picrate 1816¹
- C₁₄H₁₁N₂S Benzothiazole 5 amino 1 (2 4 diamino-phenyl) 4 methyl 1250¹
- C₁₄H₁₁O Benzyl ether, 930¹ 2686¹
2 Butyrosaphthone 944¹
2 Isobutyrosaphthone 944¹
Xylenol α phenyl 93¹
- C₁₄H₁₁O₂Sn Stannane ditolyl oxide 3976¹
- C₁₄H₁₁O₂ (See also *Hydrobenzoin*)
9 10 Anthradial, 1 4 7 8 tetrahydro-P 2442¹
- Anthraquinone hexahydro-, P 65¹
Benzene 1 - (benzyl-oxo) 4 methoxy 2127¹
- Butyrosphenone β 2 (uryl) 1520¹
4 3 β Naphthopyrone 7 8 9 10 tetrahydro-1 methyl, 2426¹
1-henol m-(phenethyloxy), 5408¹
— β (β phenetyl) 4573¹
- C₁₄H₁₁O₂S₂ Anisole β β dithio-bis-, 2128¹
- C₁₄H₁₁O₂S Benzene 1 methoxy 4 (β-methoxy phenoxy), 1816¹
- Kawase acid 937¹, 938¹
- Kawase, 937¹
- 1 Naphthaleneacetic acid, α ethyl α -hydroxy, 2994¹
- 1 Naphthalenehydracrylic acid, β - methyl-, and Ba salt 3330¹
- C₁₄H₁₁O₂S Anisole 2 methyl- 4 - (phenylsulfonyl) 2127¹
o Cresol 4 β tolylsulfonyl, 2127¹,

- C₁₁H₁₁O (methyl ferone 3 ethyl 4 methyl, acetate 4251 4869²)
- C₁₁H₁₁O S An ole p sulfonolysis 2127¹
o-Cresol 4 4 sulfonolysis 2127¹
- C₁₁H₁₁O Chromone 3 acetyldimethoxy - 2 methyl 4250² 5671¹
Compd m 910² from α -dimethylglutamic acid and AcCl 2690²
- C₁₁H₁₁O₂ Pyromellitic acid tetra-Me ester, 1822¹
- C₁₁H₁₁ S 3 p Toly sulfide 1828¹
C₁₁H₁₁ S Benzyl disulfide 2125¹
f Tolid sulfide 1825¹ 2128¹ 4063¹
- C₁₁H₁₁BO₃ Boric acid di p anisyl, 977²
- C₁₁H₁₁BrN₂O Ketone anilinoethyl 4-bromo-3,5-dimethyl 2 pyrryl, 3009¹
- C₁₁H₁₁BrN₂O Cinnamic acid 3 bromo - α -cyano-4-dimethylamino-Et ester 1509¹
- C₁₁H₁₁BrN₂O 1,2) Pyrimidineacetic acid 5-bromo 3,4,6 tetrahydro - 2,6-diketo-4 phenyl Et ester, 516²
- C₁₁H₁₁ClO α α Toluenechol 3 - chloro 4-hydroxy 5-methoxy triacetate 91²
- C₁₁H₁₁N Dibenzylamine 1510² HS salt, 4210²
Diphenylamine, N ethyl P 522²
Di p-tolylamine 602^{2,3}
p Toluene V benzyl 181^{2,3}
- C₁₁H₁₁NO Benzylamine, p-methoxy N phenyl, 181^{2,3}
2 Butanol 4 (1 naphthylamino) 2393², 3517²
2 Butyronaphthone oxime 944²
p Cresol 3 p toluene P 4011²
Ethanol 2 amino-1,2-diphenyl, 280², 1240²
2 Isobutyronaphthone oxime 944²
- C₁₁H₁₁NO₂ Aniline, 3 (benzoyloxy)-4-methoxy, 4250²
9 10 Anthradol 6 amino 1 2 3 4 tetrahydro- and HCl 3993¹
3 Pyrolocarboxylic acid, 2 5 dimethyl-1-o-tolyl 5410²
1 Pyrolopropanol, benzoate 1825²
- C₁₁H₁₁NO₃ Benzenesulfonamide, N ethyl, 179²
- C₁₁H₁₁NO₃ Cinchoninic acid butoxy, 5245¹
Cinchoninic acid, 2 isobutoxy 5245¹
2 Naphthalenecarboxylic acid, 3 methoxy, Et ester 2138¹
- C₁₁H₁₁NO₃ Acetic acid (1 amino 4 ethoxy-2 naphthylmercapto) P 1098²
- C₁₁H₁₁NO₃ 1,3 Indolecarboxylic acid, di Et ester, 700²
1 Pentin 3 ol 3 ethyl, p - nitrobenzoate, 73²
- C₁₁H₁₁NO₃ Guaiacol, 5 - amino, p - toluenesulfonate 4250²
- C₁₁H₁₁N₂ Aniline, V, N-dimethylphenylazo-, 5217²
Dimethyl yellow, 703², 334^{2,3}
- C₁₁H₁₁N₂O 2 Propionaphthone, semicarbazone 944²
- C₁₁H₁₁N₂O 3 Pyrolocarboxylic acid 2-acetyl 5-methyl, phenylhydrazono, 3005¹
Quinic acid isopropylidenehydrazide, 953²
- C₁₁H₁₁N₂O S Benzenesulfonamide o formyl V methyl, phenylhydrazono 925²
Benzenesulfonamide 1,2 dihydro 1 methyl-2 phenylhydrazono 904²
—, 1 2 - d hydro 2 - (β -methyl- β -phenylhydrazono) 975²
—, 1 2 - d hydro 2 (β p tolylhydrazono), 975²
- C₁₁H₁₁N₂O S See Methyl orange
- C₁₁H₁₁N₂O₂ Cinnamic acid, α - cyano - 4 - dimethylamino-3 nitro-, Et ester, 1509¹
- C₁₁H₁₁N₂O S Burea, 6 - amino 1 - phenyl - 2-thio-, 3634²
- C₁₁H₁₁N₂O₂ Burea, 1 - amino-6-phenyl-, 3634²
s - Triazine, 2,4 - diamino - 6 - benzyl-, di Ac deriv, 959²
—, 2,4 diamino 6 - m(and p) - tolyl-, di Ac deriv, 958^{2,3}
- C₁₁H₁₁ Naphthalene, 2-*tert*-butyl, 944¹
Naphthalene, 6-ethyl 1,4-dimethyl-, 961¹
- C₁₁H₁₁AsNO₂ Phenarsine, 1 ethyl - 1,6 - dihydro-, 1,1-dihydroxy deriv, 1831¹
- C₁₁H₁₁AsN₂O₂S Methanesulfonic acid, 5,5'-arsenobis[2 hydroxyamino-, Co salt, P 3775²
- C₁₁H₁₁BrNO₂ Indican 6-bromo-, 1522²
- C₁₁H₁₁BrN₂O Isopyrrole, 4 - bromo - 2 - (5-bromo 3 ethyl-4 methyl 2-pyrryl methylene)-3,5-dimethyl-, -HBr, 111²
Isopyrrole 2 - (3,5 dibromo 4 - methyl-2-pyrrylmethylene) 4 - ethyl - 3,5 - dimethyl, -HBr, 111¹
- C₁₁H₁₁BrN₂O Compd, m 117², from compd m 64² 1232²
- C₁₁H₁₁ClO₂ Galactal, dichlorotetraacetyl - 2 oxy, 279²
- C₁₁H₁₁N₂ 2,9 Pyridindole, 3,4 - dihydro - 1 isopropyl, 301¹
2,9 Pyridindole, 3,4 - dihydro 1-propyl, 300²
—, 1 ethyl - 3,4 - dihydro - 9 - methyl, 301¹
o-Tolidine, 940² fluorescein, 1810²
- C₁₁H₁₁N₂O Acetamide N - (4 - dimethylamino-1 naphthyl), 1515²
Ketone, anilinoethyl 3,5 - dimethyl - 2-pyrryl, 3009¹
2-Pyrrylcarboxanilide, 4 ethyl-3-methyl, 5899²
- C₁₁H₁₁N₂O₂ Cinchonamide, N, N - diethyl 6-hydroxy, 954²
Cinnamic acid, α - cyano - p - dimethylamino-Et ester, 1508²
Cyclohexanecarboxylic acid, 2-(2 benzimidazolyl), 701²
Phthalimide N - (o - aminophenyl)hexahydro-, 701²
1 - Pyrolopropanol, p - aminobenzoate 1825²
- C₁₁H₁₁N₂O₃ p Toluenesulfonotoluene, amino-, 699²
- C₁₁H₁₁N₂O₃ Barbituric acid, 1,5 - diethyl - 5-phenyl, P 2738¹
Barbituric acid 1 - methyl - 5 - phenyl - 5-propyl, P 2738¹
o-Toluic acid α -hydroxy, salt with o-phenylenediamine, 702²
- C₁₁H₁₁N₂O₄ [1,1'-Bipyrryl] 3,3 dicarboxylic acid 2,2,5,5 tetramethyl, 3640²
1(2) - Pyrimidinecarboxylic acid, 3,4,5,6 tetrahydro - 2,6 diketo - 4 - phenyl, Et ester, 516²
- C₁₁H₁₁N₂O 2(1) - Pyrazinone, 3 4 dihydro-1,4,6 trimethyl - 3 phenylazomethylene, and III, 2431¹
- C₁₁H₁₁N₂O Pyrazole, 5 butoxy - 1 (2,4 - di n-tropenyl)-3-methyl, 1246²
- C₁₁H₁₁N₂O Picrate, m 110-2², of compd from a pyrrole acid, 4264¹
- C₁₁H₁₁O Cyclohexanol, 1 phenylethyl-, 1815¹
Cyclohexanone, 2 benzal-6-methyl, 4235²

- Indone, 2-amyl-, 4867⁴
 2 Naphthol, 4-ter butyl, P 974⁴
 C₁₄H₁₈O₄ 1,3 - Cyclohexanedione, 2 ethyl - 5-phenyl-, 687⁴
 C₁₄H₁₈O₄ Anthraquinone, 1,2 3,4,5 6,7,8 - octahydro-1 hydroxy, 3993⁴
 1,3 Hexanedione, 1 - phenyl, enol acetate, 5394⁴
 1,3 - Indandione, 2 butyl - 4 - hydroxy - 7-methyl, 2718⁴
 —, 2 2-diethyl-4 hydroxy 7 methyl-, 2718⁴
 —, 4-hydroxy 2-isobutyl 7 methyl, 2718⁴
 Kawaic acid, dihydro-, 937⁴
 Kawaic, dihydro-, 937⁴
 1 - Naphthaleneacrylic acid, 5,6,7,8 - tetrahydro - 2 hydroxy - β methyl, *salt*, 2426⁴
 1 - Naphthalenepropionic acid, 1,2,3,4-tetrahydro-4 keto-, Me ester 1532⁴
 Umbelliferone, 3 isobutyl 4-methyl, 4869⁴
 C₁₄H₁₈O₄ Chromone, 3 ethyl 5,7-dimethoxy 2 methyl, 4230⁴
 Cinnamic acid, α -carboxy, di Et ester 2143⁴
 Coumarin, 3 - ethyl 5,7 - dimethoxy 4 methyl, 4250⁴
 C₁₄H₁₈O₄ Sulfonic acid, methylphenyl(phenyl sulfonyl), Me ester, 253⁴
 C₁₄H₁₈O₄ Butanetricarboxylic acid 2 benzyl, 1803⁴
 1,1,3 Propanetricarboxylic acid 2 (α -methylbenzyl), 1503⁴
 C₁₄H₁₈O₄ Glycolic acid, Et ester, opianate, 5698⁴
 C₁₄H₁₈O₄ Butyric acid, β , β dimethyl, β bromophenacyl ester, 487⁴
 Isocaproic acid, β bromophenacyl ester 1820⁴
 C₁₄H₁₈ BrO₄ Isovanillyl alcohol α (α bromoethyl), diacetate, 4538⁴
 Vanillyl alcohol, α (α bromoethyl) diacetate, 4538⁴
 C₁₄H₁₈ BrO₄ Succinic acid, (5 bromo 2,4 di methoxyphenyl) di Me ester 4868⁴
 C₁₄H₁₈ IN₃ Benzylmethylphenylazanium iodide 2982⁴
 C₁₄H₁₈N Cinnamoinle α amyl 4867⁴
 C₁₄H₁₈ NO Indone, 2 amyl, oxime 4867⁴
 C₁₄H₁₈NO₄ Valonic acid, benzamido-, di Et ester, 5398⁴
 C₁₄H₁₈NO₄ Chondronin, 3661⁴
 2 Pyrroleacrylic acid 3,5 dicarboxy 4 methyl 3,5-di Et ester 112⁴
 C₁₄H₁₈N₂O₄ Acetoacetic acid, α -ethyl- α (m nitrophenylazo), Et ester 917⁴
 C₁₄H₁₈N₂O₄ 4 Imidazolecarboxamide, tetrahydro 2,5 diketo N 1 dimethyl 4 (α methyl- β phenylcarbamido), 3967⁴
 C₁₄H₁₈ Anthracene, octahydro-, 944⁴
 Phenanthrene, octahydro-, 944⁴
 C₁₄H₁₈BrNO₄ Benzene acid, β (α -bromoisovaleryl amino), Et ester, 1811⁴
 C₁₄H₁₈ClNO₄ 2,3,5,6 - Tetrahydro 8,9 di methoxy - 1 - benzoylpyrroclimium chloride, 1531⁴
 C₁₄H₁₈ClN₂ Azo dye from 2 ethyl 5-methylpyrrole and MeC₁₄H₁₈Cl, 3008⁴
 C₁₄H₁₈ClN₂O₃ Glycine, N [N (4 chloro - 2 nitrophenylmercapto)leucyl], 491⁴
 C₁₄H₁₈ClN₂O₄ Acetamide, N, N - (4,5 di methoxy - α - xylene)bis(= chloro, 1225⁴
 C₁₄H₁₈N₂ Quinoxaline, 2 3-dipropyl, 3001⁴
 C₁₄H₁₈N₂O Ketone, 3,5 dimethyl 2 pyrrol 3,5 dimethyl 2 pyrrol(methyl, 3009⁴
 C₁₄H₁₈N₂O₄ Leucine, γ anthranoyl lactam, Me deriv, 492⁴
 Spuro[udan 2 4 piperidinyl 3' - nitrile hexahydro 2 6 diketo 3133⁴
 C₁₄H₁₈N₂O₄ Valonic acid β phenylcarbamido-di Et ester 919
 4 - Morpholinepropyl α nitrobenzoate HCl 427⁴
 1 Piperidimethanol α (or β) (4 5-methyl ened oxy 2 α trophenyl) 3124⁴
 C₁₄H₁₈N₂ Ketone methyl 5 methyl 2 pyrrol amine 3008⁴
 C₁₄H₁₈N₂O₄ Cyclohexanone 2 4 di trophenyl hydrate 3310⁴
 C₁₄H₁₈N₂O₄ Alanine N [N (N phenyl carbamylglycyl)glycyl], 2741⁴
 Glycine N [V (N phenylcarbamyl glycyl) alanyl] 2741⁴
 C₁₄H₁₈N₂O₄ Glycine N [V (2,4 dimetrophenyl)leucyl] 491⁴
 C₁₄H₁₈N₂O Pyridine 2 6 diamino 3 (6 butoxy 3 pyridylazo) P 4892⁴
 C₁₄H₁₈O₂ Butyronaphthone 5 6 7 8 tetrahydro 947⁴
 Cinnamaldehyde α amyl 4247⁴ 4867⁴
 Isobutyronaphthone 5 6 7 8 tetrahydro-, 943⁴
 C₁₄H₁₈O₂ Caproic acid α benzyl γ hydroxy 4 methyl lactone 1708⁴
 Cinnamic acid α amyl 4867⁴
 — β 2 4 trimethyl Et ester 607⁴
 α -Cresol 6 allyl 4 ethyl acetate 930⁴
 2 Hexanone 3 anisal 2132⁴
 γ Hexenoic acid α benzyl δ methyl, 1508⁴
 C₁₄H₁₈O₂ Acetic acid (1 hydroxycyclohexyl) phenyl 2987⁴
 Kawaic acid tetrahydro- 937⁴
 1 Naphthalenepropionic acid 5,6,7,8-tetrahydro 2 hydroxy β methyl 2426⁴
 Valeric acid δ benzoyl Et ester 2135⁴
 C₁₄H₁₈O₂ β -Benzeneacetic acid di Et ester 3973⁴
 1 3 Butanediol, 1 phenyl, diacetate 3631⁴
 Hydrocinnamic acid α acetyl β methoxy, Et ester, 691⁴
 2 Pentanol, 4 methyl, acid phthalate, 4845⁴
 Spiro[cyclopropane 1 2' indan] 2 3 dicarboxylic anhydride hexahydro 2 methoxy 3330⁴
 C₁₄H₁₈O₂ Cinnamic acid 5 ethoxy - 2,4 - di methoxy, Me ester 707⁴
 1 3 Dioxolane 4 carbinol, 2,2 dimethyl, 2,4-cresotate, 3636⁴
 Enanthic acid, γ (2 4 dihydroxybenzoyl), P 2737⁴
 C₁₄H₁₈O₂ Rhamnohexose, benzylidene-, 84⁴
 Succinic acid, (2 4 dimethoxyphenyl), di Me ester, 4866⁴
 C₁₄H₁₈O₂ Picconide 2150⁴
 Salicic acid 2150⁴
 Salicylic acid rhamnoside, Me ester, 5677⁴
 C₁₄H₁₈O₂ Salicylic acid, β glucoside, Me ester, 5677⁴
 C₁₄H₁₈O₂ Galactal, 2 3,4 6 - tetraacetyl 2-oxy, 279⁴
 Glucal, tetraacetylhydroxy, 4233⁴

- C₁₁H₁₉AsN₇O₅ Arsanilic acid γ (1 piperidyl carbonylacetate) and Na salt 5407²
- C₁₁H₁₉BrO₅ Glucose acetobromo- 5147¹
- Manose 1 bromotetraacetyl, 1805²
- C₁₁H₁₉BrNO₃ 3 Pyrrolepropionic acid, α , β -di bromo 5 carboxy 2 4 dimethyl, di Et ester 1520²
- C₁₁H₁₉ClHgO₅S Glucothiosylmercure chloride β tetraacetyl 4233¹
- C₁₁H₁₉ClNO₃S Leucine γ (4 chloro 2 nitrophenylmercapto) Et ester 491¹
- C₁₁H₁₉ClNO₃ 2 Formyl 1 3 3 5 7 penta methylpseudindolum perchlorate, oxime, 2427²
- C₁₁H₁₉ClO₅ Galactose β -acetochloro- 920² 921¹
- β -Glucose β -acetochloro- 920²
- C₁₁H₁₉NO Cinnamamide α amyl 4867²
- Cyclohexylamine γ (γ 2 furyl β -methylallylidene) 1810
- α -Hexeno- β toluide γ methyl 71¹
- β Phenetidine γ γ diallyl 90¹
- Piperidine 1 acetyl 2 benzyl 5429
- C₁₁H₁₉NO₃ Benzol[β]pyrrocoline 1 2 3 5 6 10b-hexahydro 8 9 dimethoxy and HBr 1331¹
- 2 Hexanone 3 anisal oxime 2132¹
- 3 α Indanacetic acid α cyano 3a 4 5 6 7a hexahydro- Et ester 3333¹ 3334
- C₁₁H₁₉NO₃ Capronic acid γ benzamido- Me ester 4525²
- Crotonic acid β β phenetidino- Et ester 2126¹
- 4 Morpholinopropanol benzoate HCl 4272¹
- Norvaline γ benzoyl Et ester 1231¹
- C₁₁H₁₉NO₃ Malonic acid aminobenzyl di-Et ester 1493¹
- 3 Pyrroleacrylic acid 5 carboxy 2 4-dimethyl di Et ester 1520²
- C₁₁H₁₉NO₃ 2 4 Pyrroledicarboxylic acid 5 formyl 3 propyl- di Et ester 3010²
- C₁₁H₁₉NO₃ Glucosamine, N (β methoxy benzylidene), 3965¹
- 2 Pyrroledicarboxylic acid 4 (β , β di carboxyethyl) 3 5 dimethyl tri methyl esters 301¹
- 2 Pyrrolepropionic acid 3 5 dicarboxy 4-methyl 3 5-di Et ester, 112²
- C₁₁H₁₉N₃ Cyclohexanecarboxy - β - toluide thio-, 500²
- C₁₁H₁₉N₃ 1 3, 4 Triazole 2 - isopropyl 5-methyl 1 silyl P 2442²
- C₁₁H₁₉N₃O 1(2) Naphthalenone 3 4 - di hydro 4, 5, 7 trimethyl, semicarbazone 694¹
- 1 - Piperidinedicarboxylic acid, α methyl benzalhydrazide, 4269¹
- 2 Propionaphthone, 5 6, 7, 8 tetrahydro-semicarbazone, 943²
- C₁₁H₁₉N₃O₃ α - Heptenaldehyde α methyl, β -nitrophenylhydrazide, 5140²
- C₁₁H₁₉N₃O₃S Acetoacetic acid, Et ester thio- 4 β -tolylsemicarbazone 1225¹
- C₁₁H₁₉N₃S Cyclohexanone, thio 4 β - tolyl semicarbazone, 1225¹
- 1, 4 3 - Isothiodiazine 2 isoutylamino- β -tolyl, and -HCl, 1532²
- C₁₁H₁₉N₃O₃ Carboxyhydrazide, α - benzal (1 piperidylcaronyl), 4269¹
- C₁₁H₁₉N₃O₃ 4 - Triazine, 2, 4 diamino 6-benzyl, diacetate, 959²
- 4 Triazine, 2, 4 - diamino - 6 - m (and p) tolyl, diacetate, 957², 958²
- C₁₁H₁₉N₃O₃ Diethylamine, picrolonate, 70¹
- C₁₁H₁₉N₃ Naphthalene, 6 *tert* - butyl - 1 2, 3, 4-tetrahydro-, 943²
- C₁₁H₁₉BrNO₃ Butyramide, γ - bromo - V - (3, 4-dimethoxyphenethyl), 1530²
- C₁₁H₁₉BrNO₃ Benzene 1 (β bromoethyl) 4-nitro-, compd with hexamethylene tetramine, 4240¹
- C₁₁H₁₉ClNO₃ 1 - Heptanol, 7 chloro-, carbamate 5395¹
- C₁₁H₁₉CuN₃O₃ Tetramminocupric nitrobenzoate, 682¹, 683¹
- C₁₁H₁₉N₃ Benzimidazole, 2-heptyl-, 1800¹
- C₁₁H₁₉N₃O₃ Levulinic acid, isopropyl ester phenylhydrazide, 496¹ Pr ester, phenyl hydrazide 496¹
- 2 Pentanone 4 methyl, oxime, α - methyl-carbamilate, 1506¹
- 1 Pyrrolidinedipropanol, β aminobenzoate 1526¹
- C₁₁H₁₉N₃O₃ Carbamic acid β -acetamido-, ester with 2 pentanol, 5404¹
- Glycine, N (γ phenylethyl), 491¹
- Lysine N α -benzoyl γ α methyl, 2974²
- 4 Morpholinopropanol, β aminobenzoate, HCl, 4272¹
- C₁₁H₁₉N₃O₃ Carbamic acid, β nitro-, heptyl ester 2686¹
- C₁₁H₁₉N₃O₃S Leucine, N (α - nitrophenylmercapto), Et ester, 491¹
- C₁₁H₁₉N₃O₃ Galactose α tolylhydrazide, 1821¹
- C₁₁H₁₉N₃S Benzothiazole, 1 - hexylamine - 3-methyl 4831¹
- C₁₁H₁₉N₃O₃ Cyclohexylamine N - ethyl, picrate 1809¹
- Pyrrolidine 1 butyl, picrate 951¹
- C₁₁H₁₉N₃O₃ 3 Hexanone 6 dimethylamino-, picrate, 432¹
- C₁₁H₁₉N₃O₃ (Carboxymethyl)triethylammonium picrate, 5396¹
- C₁₁H₁₉O₃ 1 Heptanol 2 benzal, 2708²
- Δ^2 2 Hexenol 3, 4 dimethyl 2 - phenyl, 3312¹
- C₁₁H₁₉O₃ Capronic acid, ϵ -phenyl, Et ester, 2135²
- Caprylophenone, hydroxy, 1229¹
- α -Cresol, ethylpropyl acetate, 929²
- Hydrocinnamic acid, β , 2, 4 trimethyl, Et ester, 603²
- Spiro[cyclohexane - 1 2' indan] 3 5-dione, hexahydro-, 3335¹
- Spiro[indan 2 4' 1 4-pyran] - 2 (3') - one 3a 4 5 6, 7 7a hexahydro 6' methyl 3335¹
- 2, 6-Xylenol, 4-butyl, acetate, 929²
- C₁₁H₁₉O₃ Acetic acid, (α -benzylphenoxy), 1229²
- Benzene, 1 (and 2) - ethoxy 2 (and 1) (ethoxymethoxy) - 4 propenyl, 5156¹
- Hydrocinnamic acid, β hydroxy - β 2 4 trimethyl Et ester, 693²
- C₁₁H₁₉O₃ α - Stibenediol, dibenzoate 4456¹
- C₁₁H₁₉O₃ Spiro[cyclopropane - 1, 2 - indan] 2, 3 dicarboxylic acid, hexahydro 2 methoxy, 3335¹
- C₁₁H₁₉O₃ 1, 2, 4 5 - Cyclohexanetetrol, tetraacetate, 4236¹
- 1-phenyltetra-carboxylic acid, tetra Et ester 2110²
- C₁₁H₁₉O₃ Cytanitol tetraacetate, 514²
- C₁₁H₁₉O₃ β -Glucosamine, tetraacetate, 4232²

- C₁₂H₂₁O₆ Fructopyranose, 1,3,4,5-tetraacetyl-, 5815^a
- Galactose, tetraacetyl- α -, 920^a
- Glucose, tetraacetyl- α -, 920^a
- Mannose, 2,3,4,6-tetraacetyl-, 1803^a
- C₁₂H₂₁O₆ Galactosone hydrate, tetraacetyl-, 279^a
- Glucose, tetraacetyl-, hydrate, 5895^a
- C₁₂H₂₁BrN₃ Benzene, (β -bromoethyl)-, compd with hexamethylenetetramine, 4241^a
- C₁₂H₂₁BrN₃ Benzothiazole, 1 - benzylamino-3-methyl-, hydrohexabromide, 4881^a
- C₁₂H₂₁ClN₂O₂ Glycine, (chloroacetyl)glycylglycylglycylglycylglycyl-, 781^a
- C₁₂H₂₁ClS Salts, β -chloroethyl phenyl, 5393^a
- C₁₂H₂₁NO β -Butyrolactide, α -ethyl- α -methyl-, 5890^a
- Cyclohexylamine, N-(γ -2-furyl- β -methylpropenyl)-, and HCl, 1810^a
- 1 Piperidineethanol, α -methyl α phenyl-HCl 4276^a
- Valeramide, N ethyl β methyl 489^a
- C₁₂H₂₁NO₂ Diethylamine, β (2 allyl 6 methoxyphenyl)-, and HCl, 1037^a
- 2 - Indanacetic acid, α cyanohexahydro-Et ester, 3333^a
- Nicotinic acid α methylheptyl ester, 4549^a
- Proionic acid, α -methylheptyl ester, 4549^a
- C₁₂H₂₁NO₂ Pyroolecarboxylic acid, 5 methyl-4-propionyl 3 propyl, Et ester 3010^a
- Tyrosine, isomyl ester, and HCl 2742^a
- C₁₂H₂₁NO₂ 2,4 - Pyroolecarboxylic acid, 5 methyl-3 propyl, di Et ester, 3010^a
- 3 - Pyroolepropionic acid, δ carboxy 2,4 dimethyl-, di-Et ester 1520^a
- C₁₂H₂₁NO₂ Carbamic acid, (2,4,5 trimethoxyphenethyl)-, Et ester 5403^a
- 3 - Pyroolepropionic acid 5 carbethoxy 2 (ethoxymethyl)-4-methyl-, 4009^a
- C₁₂H₂₁NO₂ o-Phenetidine glucoside, 5667^a
- C₁₂H₂₁NO₂ Glucosamine, tetraacetyl-, and HCl, 3968^a
- C₁₂H₂₁N₂O Quinazoline, 2 acetamido-5,6,7,8-tetrahydro 8-isopropyl 5 methyl 1254^a
- C₁₂H₂₁N₂O₂ Enanthophenone, o-hydroxy semicarbazone, 1229^a
- C₁₂H₂₁N₂O₂ 2,4 Pyroolecarboxylic acid δ -formyl 3 propyl-, di-Et ester, hydrate, 3010^a
- C₁₂H₂₁N₂O₂ 2,2 Indanacetic acid, hexahydro- α -keto-, semicarbazone, Δ g salt 3335^a
- C₁₂H₂₁ Compd from α -myrrin 2090^a
- Heptane 2-methyl 1 phenyl, 4247^a
- Octane 1 phenyl, 3469^a
- C₁₂H₂₁ClNO Trimethyl(1,2,3,4 tetrahydro 3-methoxy 2-naphthyl)ammonium chloride 1814^a
- C₁₂H₂₁ClNO₂ See Stovaine
- C₁₂H₂₁Hg₂ 1 Pentane, 4,4 dimethyl, Hg deriv, 459^a
- C₁₂H₂₁Hg₂O₂ α -Nonenoic acid, α (acetoxymercur) β (acetoxymercurioxy), Me ester, 71^a
- C₁₂H₂₁Hg₂O₂ Compd from 1 octene and Hg(OAc)₂, 71^a
- C₁₂H₂₁INO Trimethyl(1,2,3,4-tetrahydro-methoxynaphthyl)ammonium iodide, 1814^a, 2139^a
- C₁₂H₂₁INO₂ (α - α -Methoxyethyl)piperonyl trimethylammonium iodide, 1814^a
- β -Methoxy- α methylhomopiperonyl trimethylammonium iodide, 1814^a
- C₁₂H₂₁N₂, 520^a
- C₁₂H₂₁N₂O Benzaldehyde, β -[(diethylaminoethyl)methylamino] P 4256^a
- C₁₂H₂₁N₂O₂ (See also Telocaine)
- 4 Piperidinol, 1,2,2,6 tetramethyl 2 pyrrolecarboxylate 1526^a
- Succinimide lupinyl, 3007^a
- C₁₂H₂₁N₂O₂ Piperazine, 2,3,5,6 tetramethyl 1 phenylsulfonyl-, and HCl, 4272^a
- C₁₂H₂₁N₂O₂ Anisic acid, 3-amino-, β diethylaminoethyl ester di HCl, P 3131^a
- Benzic acid, 4-amino 3-methoxy β -diethylaminoethyl ester, HCl P 3131^a
- C₁₂H₂₁N₂O₂ Benzenesulfonic acid, ρ methoxy Me ester, compd with hexamethylenetetramine, 3322^a
- m Toluene-sulfonic acid, 4 hydroxy, Me ester compd with hexamethylenetetramine, 3322^a
- C₁₂H₂₁N₂O₂ Octylamine, picrate 70^a
- Tetraethylammonium picrate 2351^a, 2626^a, 3824^a
- C₁₂H₂₁N₂O₂ Octylamine, styphate, 70^a
- C₁₂H₂₁O Ether phenyl α , ω , 7 trimethylisomyl 931^a
- 1 Heptanol, 2 benzyl- 4247^a
- Phenol octyl, 1229^a
- C₁₂H₂₁OS 1 Octanol 8 phenylmercapto- 5395^a
- C₁₂H₂₁O₂ Carvomenthol 2-ethyl-, acetate 4556^a
- Phenol, m-(octyloxy) 5408^a
- Resorcinol, octyl- 4611^a
- C₁₂H₂₁O₂ 2 Indanacetic acid 2 acetonol hexahydro-, 3335^a
- C₁₂H₂₁O₂ Fumaric acid, monomethyl ester, and salts 5145^a
- 2 Indanacetic acid 2 carboxyhexahydro-, di Me ester 3335^a
- 2,2-Indanacetic acid hexahydro-mono-Me ester, 3333^a
- 2 Indanomalonic acid hexahydro- di Me ester, 3333^a
- Maleic acid, monomethyl ester, and salts, 5145^a
- C₁₂H₂₁O₂ 1,2-Cyclopentanedecarboxylic acid 2 ethyl 3 keto 1 methyl, di Et ester, 4530^a
- C₁₂H₂₁O₂ 1,2,3 Cyclohexanedicarboxylic acid, 2,4-dimethyl tri Me ester, 3657^a
- 2,2-Indanacetic acid hexahydro α -hydroxy- α' -methoxy 3335^a
- C₁₂H₂₁O₂ 2,2,3 Pentanedicarboxylic acid, 4 keto-, tri Et ester, 3631^a
- C₁₂H₂₁O₂ Glucoside, triacetyl β methyl, 6-Me ether, 4230^a
- C₁₂H₂₁BrP Phosphane, (β ethylphenyl)dipropyl dibromide, 283^a
- C₁₂H₂₁CdMoNo₂OS₂, 3587^a
- C₁₂H₂₁CuMoNo₂OS₂, 3587^a
- C₁₂H₂₁IN₂O₂ (3-Hydroxy-4-methoxy- α -methylbenzyl)trimethylammonium iodide, methylcarbamate, 4241^a
- C₁₂H₂₁N Butylamine, N,N-diethyl- β -phenyl, P 2153^a
- Octylamine, N phenyl, 2700^a
- C₁₂H₂₁NO Cyclohexylamine, N-(γ -2-furyl β -methylpropenyl)-, dihydro deriv, 1810^a
- C₁₂H₂₁NO₂ Benzyl alcohol, α -(β -butoxy- α -methylaminoethyl)-, 2133^a

- C₁₈H₂₂NO₂S Menthylsulfonamide, γ amyl, 1704¹
 β Toluenesulfonamide *N* heptyl, 2704¹
- C₁₈H₂₂NO₂ 3 α Piperidinedicarboxylic acid, 4 keto 1 2 6 trimethyl-, di Et ester, P 1037¹
- C₁₈H₂₂O 1 1 2 Butanetricarboxylic acid 3 keto- tri Et ester semicarbazone 3631¹
- C₁₈H₂₂O₂ Glycerol (glyceryl)glyceryl glycol, lyeol 78¹
- C₁₈H₂₂P Phosphoric diisopropyl 2 5 xylol, and compd with H₂Cl 2702¹
 Phosphoric (p ethylphenyl)diisopropyl 283¹
- C₁₈H₂₂ β Menthane 2 Δ^1 butenylidene- 48,6¹
- C₁₈H₂₂OP⁺ Anisylmethylidipropylphosphonium iodide 283¹
- C₁₈H₂₂N₂ Picoulnitrile α heptyl, 684¹
- C₁₈H₂₂NO₂ Pyrimidine 5 *sec* butyl 2 4 6-trimethoxy 4229
- C₁₈H₂₂O Camphorquinone 3-di Et acetal 4871¹
 Orthoacetic acid phenyl Me diisopropyl ester 213¹, Me di Pr ester 2135¹
- C₁₈H₂₂O₂ 1 1 Cyclopentanediacetic acid 3 methyl di Et ester 3319¹, 4234¹
- C₁₈H₂₂O₂ Butanetricarboxylic acid, methyl, tri Et ester 87¹
- C₁₈H₂₂N Cyclohexylamine γ (β ethyl Δ^1 hexenylidene) 1809¹
- C₁₈H₂₂NO Cyclohexylamine γ (γ 2 furyl β methylpropenyl) tetrahydro deriv., 1810
- C₁₈H₂₂NO₂ 1 P peridonebutyric acid, 2-carboxy di Et ester 3007¹
- C₁₈H₂₂NO₂ 3 Carvomenthenamine acid tartrate 1234¹
- C₁₈H₂₂ Naphthalene 7 ethyldecahydro- 1 4a dimethyl 709¹
- C₁₈H₂₂N₂ Pyrrolidone γ (11) lupinyl, 3007¹
- C₁₈H₂₂O₂ 2 Butanol 1 (2 β menthylidene) 4856¹
 Δ^1 4 heptenone 5-ethyl 6-propyl, 3313¹
 Δ^1 6 Tridecnone 8-methyl 3312¹
- C₁₈H₂₂O₂ α Dodecenic acid, Et ester, 5663¹
 1 2 Ethanediol 1 2-dicyclohexyl, 5116¹
- C₁₈H₂₂O₂ Caproic acid α γ triethyl β keto-, Et ester 1217
 Et camphor 3 hydroxy, di Et acetal, 4871¹
 Propionic acid β methoxy, 3 β -menthyl ester 567²
- C₁₈H₂₂O₂S Lactylic acid α hydroxy, xanthate 3314¹
- C₁₈H₂₂O₂ Malonic acid, amylethyl, diethyl ester, P 5249¹
 Fimelic acid α -heptyl, 684¹
 Sulenic acid, α , β -dimethyl, di-Et ester, 919¹
- C₁₈H₂₂BrO₂ Lauric acid, α bromo-, Et ester, 5663¹
- C₁₈H₂₂NO Butyramide γ -3 β -menthyl, 1233¹
 Isolityramide, γ -3 β -menthyl- 1,33¹
- C₁₈H₂₂NO₂ Lactic acid α acetamido, 48,60¹
 P melanic acid, heptyl 681¹
- C₁₈H₂₂O₂ Fimelamide, α heptyl, 684¹
- C₁₈H₂₂O₂ (see also Myristic acid)
 Cyclohexanone di Bu acetal, 92,1
 Lactic acid, Et ester 1797¹
- C₁₈H₂₂O₂ Myristic acid α mercapto-, 98,1
 C₁₈H₂₂O₂ 1 4 Cyclohexanone, bis diethyl acetal 9,21¹
- C₁₈H₂₂N Hexylamine, *N* - cyclohexyl β - methyl, and- HCl, 1809¹
- C₁₈H₂₂ Tetradecane, 1717¹, 2040¹
- C₁₈H₂₂N₂ Lupinine, α - dimethylamino-, dimethiodide, 3007¹
- C₁₈H₂₂O 1 Tetradecanol, 1797¹
- C₁₈H₂₂O₂ Caproaldehyde, α - butyl - α - hydroxy, di Et acetal, 2113¹
- C₁₈H₂₂NO₂ 3 Butanesulfonic acid, 3 hydroxy, menthylam ne salt, 1216¹
- C₁₈H₂₂As₂ Tributylthylarsonium iodide, 1485¹
- C₁₈H₂₂N₂O₂ Propionaldehyde, β , β' hydraxo-bis-, bis(diethyl acetal), 4237¹
- C₁₈H₂₂Cl₂N₂O β Methoxytrimethylenebis(diethylmethylammonium chloride), 5395¹
- C₁₈H₂₂Cl₂N₂O₂PT (Diethylamino β - methoxy propyl)trimethylammonium chloroplatinate, 5395¹
 β - Methoxytrimethylenebis(diethylmethyl ammonium chloroplatinate), 5395¹
- C₁₈H₂₂Cl₂N₂O₂PT Choline butyrylcholine chloroplatinate, 3315¹
- C₁₈H₂₂As₂CDi₂ Triethylmethylarsonium iodide, CDi₂ deriv., 1485¹
- C₁₈H₂₂Cl₂N₂O₂PT (γ - Methoxypropyl)trimethyl ammonium chloroplatinate, 1814¹
- C₁₈H₂₂N₂Si₂ + H₂O, 1177¹
- C₁₈H₂₂Br₂Cl₂O Anthraquinone, 1,4,6-trichloro- 7 (dibromomethyl), 3647¹
- C₁₈H₂₂Cl₂O₂ Anthraldehyde, 3,5,8-trichloro- 9,10-dihydro-9,10-diketo-, 3647¹
- C₁₈H₂₂Cl₂O₂ 2 Anthraquinonecarboxylic acid 3 5,8-trichloro-, 3647¹
- C₁₈H₂₂ClNO₂ 1 Anthraquinone nitrile, 4-chloro- 3641¹
- C₁₈H₂₂ClO₂ 2 Anthraquinonecarboxylic acid, 1 chloro-4 hydroxy, P 3361¹
- C₁₈H₂₂NO₂ 3 2,6 *meso* - Anthrisothiazole - 3 aldehyde 6 keto-, P 5177¹
- C₁₈H₂₂NO₂ 3 2,6 *meso* - Anthrisothiazole - 3 carboxylic acid, 6-keto-, P 5177¹
- C₁₈H₂₂NO₂ 3 2,6 - *meso* - Anthrisothiazole 3 carboxylic acid, 6-keto-, 5-dioxide, P 5178¹
- C₁₈H₂₂BrNO₂ 2 Anthraquinonecarboxylic acid, 3 amino-4 bromo-, P 1263¹
- C₁₈H₂₂Br₂O Iodone, 2,6 dibromo-3 phenyl, 1237¹
- C₁₈H₂₂Br₂O₂ 3 - Thiophanthrene carboxylic acid, 2 acetyl di Br deriv., 5167¹
- C₁₈H₂₂NO₂ 2 Anthraquinone nitrile, 3 - amino-, P 5177¹
- C₁₈H₂₂N₂O₂ 3 - *meso* - Anthrapyrazolecarboxylic acid, 2,6-dihydro-6-keto-, P 2440¹, P 5177¹
- C₁₈H₂₂O₂ 1 Anthraldehyde, 9 10 dihydro 9,10-diketo- 3336¹
 1 - Anthroc acid, 9,10 dihydroxy γ lactone, 607¹
- C₁₈H₂₂O₂ 1 Anthraquinonecarboxylic acid, 959¹, P 709¹
 Phenanthrenequinone, 2 3(?) - methylene dioxy, 1243¹
- C₁₈H₂₂O₂ 2 Anthraquinonecarboxylic acid, 4-hydroxy, P 3361¹
- C₁₈H₂₂O₂ 2 Anthraquinonecarboxylic acid, 1,4-dihydroxy, P 3361¹
 Muny sthion, 2426¹, 3336¹
- C₁₈H₂₂As₂Cl₂N₂O₂ Quinol(8,7 - β) - 1 4 benzarsazine, 7 - chloro 7 12 - dihydro- δ - nitro-, and HCl, 567¹
- C₁₈H₂₂Br₂N₂O Pseudonitrosyl, 6 - bromo - 2 β nitrobenzyl, 1522¹

- C₁₅H₁₁BrO₃ 1 β -Naphthothiophenecarboxylic acid, 2 bromoacetyl, 5167^a
- C₁₅H₁₁Br₂N₂O₃ Phthalaz 1 one, 2 6'-dibromo-4'-nitro-3 phenyl 4-methyl-, 4273^a
- C₁₅H₁₁ClN₂O₃ 1,5-Pyridopyridine-4-carboxylic acid, 6-chloro-2 phenyl, P 7167^a
- C₁₅H₁₁ClO₃ 3-Phenylthiophenecarbonyl chloride, 2717^a
- C₁₅H₁₁ClO₃ Anthraquinone, 1-chloro-2-methyl-, P 1265^a
- C₁₅H₁₁ClO₃ Anthraquinone, 1-chloro-4-methoxy-, 3643^a
- C₁₅H₁₁Cl₂N₂O₃ Phthalaz-1-one 2',6-dichloro-4'-nitro-3-phenyl 4-methyl-, 4273^a
- C₁₅H₁₁Cl₂NO₃ Compd, m 274^a, from hydroquinonequinolinium chloride, 3998^a
- C₁₅H₁₁NO₃ 2-Anthraldehyde 1-amino-9,10-dihydro-9,10-diketo-, 947^a, P 2539^a
- Propiophenone β -nitro- β -phenyl 2145^a
- C₁₅H₁₁NO₃ Anthraquinone, 2-methyl 1-nitro-, 947^a
- Coumarin, nitro-3-phenyl 4852^a, 4883^a
- C₁₅H₁₁AA₂N₂O₃ Quinox[8,7 β] 1,4-benzazepine 7,13-dihydro-7-hydroxy-5-nitro-5676^a
- C₁₅H₁₁BrNO Compd m 250^a (decomps) from compd m 220^a and AcONa, 947^a
- Isoxazole, 3-(p -bromophenyl) 5-phenyl 1820^a
- C₁₅H₁₁BrN₂O₃ Phthalimide, N p -bromobenzyl 4243^a
- C₁₅H₁₁Br₂O₃ 1,3-Propanedione, 2,2-dibromo-1,3-diphenyl-, 3642^a
- C₁₅H₁₁Br₂N₂O₃ Acetaminide, α,α (2,4,6-trimethylisophthalyl)bis[α,α -dibromo-2986^a
- C₁₅H₁₁ClN₂O₃ Phthalimide, N p -chlorobenzyl, 4243^a
- C₁₅H₁₁Cl₂N₂O₃ Acetonitrile, α,α' -(2,4,6-trimethylisophthalyl)bis[α,α -dichloro-2985^a
- C₁₅H₁₁INO₃ Phthalimide, N p -iodobenzyl, 4243^a
- C₁₅H₁₁N₂O₃ β -Acenaphthendian-3,5-diamine P 4717^a
- C₁₅H₁₁N₂O₃ 1,2,4-Oxadiazole, 3-benzoyl 5-phenyl, 3623^a
- Quinolone 2-[σ (m and p)-nitrophenyl] 296^a, 297^a
- C₁₅H₁₁N₂O₃ 2-Anthraldehyde, 1-amino-9,10-dihydro-9,10-diketo-, oxime 947^a
- Phthalimide, 4-amino-, H₂ deriv, 1511^a
- C₁₅H₁₁N₂O₃ 1,3(2,4)-Isocoumarindione, 4-(nitrophenylazo), 3648^a
- C₁₅H₁₁N₂O₃ 2-Propanol, 1,3-bis(2,4,6-trimethylisophthaloyl)-, 3977^a
- C₁₅H₁₁O 9-Anthraldehyde, P 4412^a
- Propiophenone, β -phenyl-, 1814^a
- C₁₅H₁₁O₃ Anthraquinone, methyl-, 512^a, 3336^a
- Flavone, 933^a
- C₁₅H₁₁O₃ 1,2- $\beta\beta$ -Naphthopyrone, 3-acetyl 2146^a
- Propanedione, diphenyl-, 3642^a
- Umbelliferone, 3-phenyl-, 4541^a
- C₁₅H₁₁O₃ 1- β -Naphthothiophenecarboxylic acid, 2-acetyl, 5167^a
- 3-Thiophanthrenecarboxylic acid, 2-acetyl, 5167^a
- C₁₅H₁₁O₃ Anthraquinone, hydroxymethoxy-, 1519^a, 3643^a
- Benzal, 3,4-methylenedioxy-, 1243^a, 4876^a
- Chrysophanic acid, 1034^a
- Coumarin, dihydroxyphenyl 4541^a, 5671^a
- Dadzen 5675^a
- Naphthalic anhydride, 4-propionyl 5674^a
- Rubiadin, 3337^a
- C₁₅H₁₁O₃ Anthraquinone, 1,4,6-trihydroxy 7-methyl 3647^a
- Genistein, 5675^a
- C₁₅H₁₁O₃ Cyanidin 5168^a
- C₁₅H₁₁O₃ (See also *Quercetin*)
- Morin, 3395^a
- Pigment from acacia wood, 4276^a
- C₁₅H₁₁O₃ Myricetin, 3395^a
- C₁₅H₁₁BrO Anthrone 10-bromo 2-(and 3)-methyl 4546^a
- Chalcone 3-bromo- 917^a
- C₁₅H₁₁BrO₃ 1,3-Propanedione 2-bromo 1,3-diphenyl 3642^a
- C₁₅H₁₁BrO₃ Thioxanthone, 4-bromo 1,2-dimethoxy 2724^a
- C₁₅H₁₁BrO₃ Thioxanthone 4-bromo 1,2-dimethoxy 10-dioxane 2'25^a
- C₁₅H₁₁BrClIO₃ Hydrocinnamic acid α,β -dibromo-, p -iodophenyl ester dichloride 4245^a
- C₁₅H₁₁BrIO₃ Hydrocinnamic acid α,β -dibromo-, p -iodophenyl ester 4245^a
- C₁₅H₁₁BrNO 1,6-Dibromo 2-hydroxy 1-naphthylpyridinium bromide 947^a
- C₁₅H₁₁Br₂NO Phthalaz 1-one 2,4-di-bromo 4-amino 3-phenyl 4-methyl 4273^a
- C₁₅H₁₁Br₂O₃ Benzyl alcohol α -(tribromo-methyl) benzoate 505^a
- C₁₅H₁₁ClNO₃ Clyoxime chlorophenyl, Br deriv 1430^a
- C₁₅H₁₁ClO₃ Glyoxylyl chloride [α -(benzyl mercaptophenyl)] 5186^a
- C₁₅H₁₁ClO₃ Acetophenone α -(σ -chlorophenyl) 3,4-methylenedioxy 2714^a
- C₁₅H₁₁ClO₃ Benzoin 2-chloro 3,4-methylene dioxy-, 2992^a
- C₁₅H₁₁ClO₃ Isotindin chloride 5426^a
- Luteochroman chloride 5426^a
- C₁₅H₁₁ClO₃ Cyanidin chloride 5169^a, 5898^a
- C₁₅H₁₁ClO₃ Compd from perillamin HCl, 3997^a
- C₁₅H₁₁ClIO₃ Cinnamic acid p -iodophenyl ester, dichloride 4245^a
- Hydrocinnamic acid α,β -dichloro p -iodophenyl ester, 4245^a
- C₁₅H₁₁ClNO Phthalaz 1-one 2,6-dichloro 4-amino 3-phenyl 4-methyl 4273^a
- C₁₅H₁₁ClNO₃ Benzyl alcohol α -(trichloro-methyl) n -tobenzoate 5711^a
- C₁₅H₁₁ClN₂ Connauldaldehyde (2,4,6-trichlorophenyl)hydrazine 5406^a
- C₁₅H₁₁Cl₂N₂O₃ Hydrazine α -acetyl β -benzoyl α -(2,4,6-trichlorophenyl) 5406^a
- C₁₅H₁₁IO₃ Cinnamic acid p -iodophenyl ester 4245^a
- C₁₅H₁₁INO₃ See *Thyroxine*
- C₁₅H₁₁N Quinoxaline phenyl 296^a, 297^a
- C₁₅H₁₁NO β -Acenaphthendianone, isono 1 4556^a
- Isoxazole diphenyl, 10^a, 1818^a
- α -Tolunitrile α -benzoyl, 1240^a
- C₁₅H₁₁NO₃ Acenaphthecarboxylic acid Me ester 297^a
- Anthraquinone, 1-amino-2-methyl-, 947^a
- C₁₅H₁₁NO₃ Anthraquinone, 1-amino-2-methylmercapto-, 2723^a
- C₁₅H₁₁NO₃ Naphthalimide, 4-propionyl, 5674^a

- Phthalide 4 (and 5) benzamido-, 3325^a
 Propanetrione diphenyl 2-oxime, 3645^a
 4 3 Pyrrolylpyrrol 1(2) one, piperonyl
 dene 1521^a
 C₁₅H₁₁NO₄ Alizarin 3-(aminomethyl), 1242^a
 C₁₅H₁₁N₂O 2 Naphthol 1 (3 pyridylazo)
 and HCl, 3344^a
 8 Quinolindol 5-phenoxy-, 954^a
 C₁₅H₁₁N₂O₃ Furazan 3-benzamido-4 phenyl,
 3623^a
 1 3 2 4) Isoquinolinedione, 4 phenylazo-
 3648^a
 Oxadiazole benzamido-phenyl 468^a
 — benzoylphenyl, oxime 3623^a
 4 3) Quinoxalene 3 benzamido-, 4882^a
 1 2 5 Triazole 3 carboxylic acid, 1 4-
 diphenyl, 1827^a
 C₁₅H₁₁N₂O₃ Phthalaz 1 one 4 nitro 3
 phenyl-4 methyl 4272^a
 3 4 5 Pyrazolotriene 1 2 diphenyl
 4-oxime 2145^a
 C₁₅H₁₁N₂O₃ Benzothiazole, 1 (N acetyl p-
 nitroamino) 104^a
 C₁₅H₁₁N₂O₃ Acridinecarbam acid 1 nitro-
 Me ester, 4271^a
 C₁₅H₁₁N₂O₃ Benzenesulfonic acid p (8-
 hydroxy 5 quinolylazo) NaHSO₃
 compd 904^a
 C₁₅H₁₁N₂O₃ Phenol 2 6 dinitro 4 (3 nitro-
 p-oxyl) acetate, 4573^a
 C₁₅H₁₁N₂O₃ 2 2 Triazamercaptan 4 ampo-
 6-phenyl picate, 1531^a
 C₁₅H₁₁AsNO₂ 2 Fluorenearsonic acid, 7 acet
 amido-9 keto- and Na salt 3983^a
 C₁₅H₁₁AsNO₂ Glycidic 7 arseno 9 keto-
 2 fluoryl 3983^a
 C₁₅H₁₁AsN₂O₃ 6 Arsanic acid 7 (5 nitro-
 8 quinolyl) 5676
 C₁₅H₁₁BrClNO₃ Carbanic acid 3 bromo-2
 hydroxy 5 methyl Me ester, 2 chloro-
 5-nitrobenzenesulfonate 5409^a
 C₁₅H₁₁BrNO₂ Chalcone bromo- oxime, 1820^a
 5141^a
 Cinnamanilide p bromo-, 1620^a
 Δ¹ Isoxazoline 3 (p bromophenyl) 5-
 phenyl 1820^a
 C₁₅H₁₁BrNO₂ Phthalamic acid N p bromo-
 benzyl 4243^a
 C₁₅H₁₁BrN₂O₃ Benzothiazole 3 bromo 1
 p-toluenesulfonyl-5-ethoxy (?) 104^a
 C₁₅H₁₁Br₂O₃ 8 Xanthenediol, 9 9 dimethyl
 dibromo deriv, 3644^a
 C₁₅H₁₁Br₂NO Propiophenone p α β tribromo-
 β phenyl oxime, 1820^a
 C₁₅H₁₁ClNO Chalcone, 2'-chloro- oxime 1820^a
 Cinnamanilide, α-chloro-, 1820^a
 C₁₅H₁₁ClNO₂ 1 (1,4 Dihydroxy 2-naphthyl)
 pyridinium chloride, 3995^a
 C₁₅H₁₁ClNO₂ Acetamide 5-chloro 2 mer-
 capto-, benzoate, 931^a
 Benzamide, 5-chloro-2-mercapto-,
 acetate, 931^a
 C₁₅H₁₁ClNO₂ Acetophenone α (α-chloro-
 phenyl) 3 4 methylenedioxy, oxime,
 2714^a
 Phthalamic acid, α p-chlorobenzyl, 4243^a
 α-Toluanilide, α-chloro 2,4-methylen-
 dioxy, 2714^a
 C₁₅H₁₁ClNO₂ Benzoin, 2'-chloro 3,4 methyl
 endoxy, oxime, 2992^a
 C₁₅H₁₁ClNO₂ Phthalaz-1-one 4'-nitro-3
 phenyl-4 methyl, -HCl, 4272^a
 C₁₅H₁₁ClNO₂ Phthalamic acid, N p iodobenzyl,
 4243^a
 C₁₅H₁₁N₂O 1-Benzofuranaldehyde, phenyl
 hydrazone, 1248^a
 Quinoxaline, 4-p-aminyl, P 216^a
 6 Quinolindol, 4-amino 2-phenyl, and
 HCl, 4883^a
 C₁₅H₁₁N₂O₃ 2,4,1-Benzothiazin-1-one, 3 p-
 tolueno-, 3002^a
 2,4(1,3)-Quinoxalinedione, 2-thio-3-
 tolyl-, 3002^a
 C₁₅H₁₁N₂O₃ 5 Acridinecarbam acid, Me ester,
 and its HCl, 4271^a
 Benzo[cl]clopent[δ]indole, 7,8,9,10-tetra-
 hydro-5(?) nitro-, 1522^a
 2-Furanmethylaniline, N-2-naphthyl-
 nitroso-, 955^a
 3,5 Pyrazolotriene, 1,2-diphenyl, 2145^a
 C₁₅H₁₁N₂O₃ Acetamide, N-(7-nitro-2-
 fluoryl), 1235^a
 Indeno[1,2-β]indol-5a(5)-ol, 10,10a-
 dihydro-10a nitro-, 1523^a
 Isomecotinic acid, 3-cyano-1,2 dihydro-2-
 keto-6-phenyl, Et ester, 4582^a
 C₁₅H₁₁N₂O₃ Xylenol, 3,5-dinitrobenzoate, 2982^a
 C₁₅H₁₁N₂O₃ Cresol, 3,5-dinitrobenzoate, 2982^a
 C₁₅H₁₁N₂O₃ Phenol, 3,4 dimethoxy, 3,5-
 dinitrobenzoate, 5423^a
 C₁₅H₁₁N₂O₃ Benzaldehyde, 5 phenyl-2-1,3,4-
 oxidazolyldiazone, 498^a
 C₁₅H₁₁N₂O₃ Cinnamaldehyde, 2,4-dinitro-
 phenylhydrazide, 3320^a
 C₁₅H₁₁N₂O₃ 2 Propanol, 1,3-bis(2,4-dinitro-
 phenoxy)-, 3977^a
 C₁₅H₁₁N₂O₃ Pyruvaldehyde, bis-2,4-dinitro-
 phenyl hydrazide, 5076^a
 C₁₅H₁₁O Ketone, 2 fluoryl methyl, 5416^a
 C₁₅H₁₁O₂ Acrylic acid, diphenyl 2143^a
 9 Anthrol, 3 methoxy, 1518^a
 Anthrone, hydroxymethyl, 513^a
 —, 1 methoxy, 1519^a
 Flavone, 953^a
 1,3 Propanedione, 1 3 diphenyl, 1528^a,
 3641^a
 Propiophenone, α,β-epoxy β phenyl, 941^a,
 C₁₅H₁₁O₂ Acetophenone, 3 4-methylenedioxy-
 α phenyl 2714^a, 4876^a
 2 10-Anthradiol, 7 methoxy, 1519^a
 Anthrone, 1 hydroxymethoxy, 1519^a, 1520^a
 Benzal, α-methoxy, 1242^a, 3337^a
 Benzoic acid, o-(o-tolyl), 3336^a
 1 3(2)-Benzosuphthenedione, 2-ethyl-4-
 hydroxy, 2140^a
 Hydroquinone, monobenzenesulfonate, 96^a
 Pyruvic acid, diphenyl, 941^a
 C₁₅H₁₁O₃ Glyoxylic acid, [o-(benzylmercapto)
 phenyl], 5166^a
 Thioanthone, 1-hydroxy-2-methoxy-4-
 methyl, 2725^a
 C₁₅H₁₁O₃ Acetylaldehyde, phenyl ester,
 1632^a
 Anisaldehyde, 3 (p-formylphenoxy), 2983^a
 Benzoin, 3,4 methylenedioxy, 2992^a, 4579^a
 Hydrangenol, 258^a, 5158^a
 Salicylic acid, 3 phenyl, acetate, P 524^a
 C₁₅H₁₁O₃ Phloracetophenone, benzoate, 4250^a
 C₁₅H₁₁O₃ Thioanthone, 1,2 dimethoxy, 10-
 dioxy, 2725^a
 Thioanthone 1-hydroxy-2-methoxy 4
 methyl, 10-dioxo, 2725^a
 C₁₅H₁₁O₃ Benzoic acid 4-methoxy-3,4'-oxy
 bis-, 2721^a, 4567^a
 Des-4-trilolmedicardioxylic acid, 2721^a

- Eriodictyol, 3395^a
 C₁₁H₁₄O: Flavanone, 2, 4, 5, 6, 7 pentahydroxy, 3979¹
 C₁₁H₁₂O: Benzoic acid 6-methoxy 3,4 sulfonylthio, 2127²
 C₁₁H₁₄AsN₂O: Malonamide, *p*-arabino-, 5407⁴
 C₁₁H₁₄AsN₂O: 2-Fluorencarboxylic acid, 7 (carbamylmethylamino) 9 keto-, and *Na salt*, 3983³
 C₁₁H₁₄BrN: Δ¹-1,2-Diazetene 1 (p bromophenyl)-3 *p* tolyl, 4870^a
 C₁₁H₁₄BrN₂O: Phthalimide, 2 (4 amino 2 bromophenyl)-3 methyl, 4273^a
 C₁₁H₁₄BrN₂O: Benzo 1,3,6 thiaziazepin 2(1) one, 4 (bromomethyl) 4,5 dihydro 4 phenyl, 4263^a, 4266¹
 Benzothiazole, 1 *p* bromoanilino 5 ethoxy, 104¹
 —, 5-bromo-1 *p* phenylamino- 104¹
 C₁₁H₁₄BrO: Propiophenone α bromo-β phenyl, 4276¹
 C₁₁H₁₄BrO: Benzoic acid α (2 bromo 4,5 dimethoxyphenyl)mercapto, 2724^a
 C₁₁H₁₄Br₂O: Hydrocinuamide dibromo-1818¹
 Propiophenone α β dibromo β phenyl oxime 1818¹
 C₁₁H₁₄Br₂NO: *p* Benzophenoxide dibromo-286¹, 1817¹
 C₁₁H₁₄ClN₂O: 5 Indanol, 6 (p chlorophenyl) azo, 604¹
 C₁₁H₁₄ClO: Acetophenone α (p chlorophenyl) *p* methyl, 1524¹
 Acetophenone *p*-chloro-α *p* tolyl 1524¹
 Anisole *p* (p chloro α methylene benzyl), 4239¹
 Propiophenone, β chloro α phenyl 1814¹
 C₁₁H₁₄ClO: Benzoin 2 chloro 4 methoxy 2992¹
 C₁₁H₁₄Cl₂NO: Benzyl alcohol α (trichloromethyl), aminobenzonate, 5711¹
 C₁₁H₁₄Cl₂O: Δ¹-Cyclohexadienone 2 chloro-6 (2,6 dichloro *p* tolosyl) 6 methoxy 4 methyl 5668¹
 C₁₁H₁₄I₂N: Ethyl 3 iodo 5,6 benzoquinolum iodide 4269¹
 C₁₁H₁₄N: Acridine d methyl 294 4533¹
 Benzocyclopentindole tetrahydro-, 1522^a
 C₁₁H₁₄NO: 6,6 Benzocoumarin 3(4) one 4 ethyl, 4269^a
 1,3 Benzoxazine 2-methyl 4 phenyl and deriv., 1250¹
 Chalcone, oxime, 1818¹, 2132^a 5141¹
 Cinnamamide, 1818¹
 2 Furamethylamine, N 2 naphthyl 9,5¹
 Δ¹-Isosaxoline, 3,5-diphenyl 1818¹
 C₁₁H₁₄NO₂: Acridanecarboxylic acid, Me ester, 297¹
 Anthrone 3-amino 2-methoxy F 5041¹
 Phthalimide, 2 (p hydroxyphenyl) 3 methyl, 4273¹
 1,3-Propanedione, 2 amine-1,3 di phenyl, 5645¹
 C₁₁H₁₄NO₂: Mandelamide thio-benzoate, 2708¹
 C₁₁H₁₄NO₂: Acetophenone, 3,4-methylenedioxy α phenyl, oxime, 2714¹
 Ether, benzyl m-(β nitrovinyl)phenyl, 4552¹
 Ketone ethyl 4 nitro 3-acenaphthenyl, 5674¹
 Stilbene, 4-methoxy-4-nitro-, 2137^a
 α Toluanilide, 3,4 methylenedioxy 2714¹
 C₁₁H₁₄NO: Benzoin, 3,4 methylenedioxy oxime, 2992^a 4876¹
 2 Furanacrylic acid, α benzamido-, Me ester 2143¹
 Phenethyl alcohol α nitro, benzoate 4869¹
 Phenethyl, 1632¹
 Phthalimide acid methoxy, 3655¹
 C₁₁H₁₄NO₂: Benzoic acid, *p* (p nitrophenoxyl) Et ester 270¹
 Ketone, 7,8 dihydroxy 5 quinolyl methyl diacetate 2728¹
 Phenol *p* (3 nitro *p* anisyl) acetate, 4873¹
 C₁₁H₁₄NO₂: 3,4 Pyroledicarboxylic acid 1 (o carboxyphenyl) 2,5-dimethyl 5410¹
 C₁₁H₁₄N₂: 1,2,5 Triazole 3 methyl 1,4 di phenyl 1827^a
 C₁₁H₁₄N₂O: Phthalaz 1 one 4 amino 3 phenyl-4 methyl 4273¹
 C₁₁H₁₄N₂O: Benzo 1,3,6 thiaziazepin 2(1) one 4 amino- Me deriv 4266¹
 Benzo 1,3,6 thiaziazepin 2(1) one 4 *p* tolueno- 4266¹
 Urea α (5 methyl 1 benzothiazolyl) β phenyl 104¹
 C₁₁H₁₄N₂O: Δ¹-1,2 Diazetene 1 (p nitro phenyl) 3 *p* tolyl 4879^a
 C₁₁H₁₄N₂O: Compd decomps 225° from Δ¹-3,6 endomethylenetetrahydrophthalic anhydride and Ph₂N₂ 1807^a
 Glyoxylhydroxamide α phenyl oxime Ba deriv., 1490¹ 3623¹
 C₁₁H₁₄N₂O: Phthalaz 1 one 4 nitro 3 phenyl 4 methyl sulfate 4272^a
 C₁₁H₁₄N₂O: *p* Tolueneulfonic acid 3 nitro-, 2,4-dinitro-3-xylyl ester 930^a
 C₁₁H₁₄N₂O₂: Abzariadisulfonic acid guanidine salt 101¹
 C₁₁H₁₄N₂S: 1,3,4 Triazole 2 (methylmercapto) 1,5-diphenyl 2110^a
 C₁₁H₁₄N₂O: Isatin 4 amine semicarbazone 3634¹
 C₁₁H₁₄N₂O: *p* Phenylendiamine Δ¹ Δ dimethyl Δ¹ 2,4,6 trimetabenzal 3974¹
 C₁₁H₁₄N₂O: Ethanol 1 methoxy 2,2 di phenyl Na deriv 4254¹
 C₁₁H₁₄AsNO₂: 2 Fluorencarboxylic acid, 7 acet amido- 1235¹
 C₁₁H₁₄AsN: Dibenzylgold cyanide 4220^a
 C₁₁H₁₄BrN₂O: Benzanilide 4 bromo 5 methyl 1225¹
 C₁₁H₁₄BrN₂O: Cyclohexanol, 1 (bromoethenyl) *p*-nitrobenzoate 73¹
 C₁₁H₁₄BrN₂O: 3 m Acetotoluide 3 bromo 6 hydroxy, benzenesulfonate 5408¹
 m Benzenesulfonotoluide, 5 bromo 6 hydroxy, acetate 5408¹
 C₁₁H₁₄Br₂: Bibenzyl, *p,p* dibromo α methyl 5416¹
 C₁₁H₁₄Br₂H₂O: S Methane, di *p* anisylbromo-(bromomercurithal), 2413¹
 C₁₁H₁₄Br₂N₂S: Carbamidine, 3,3' dibromo-4,4' dimethylthio-, 104¹
 C₁₁H₁₄ClNO: 1-Ethyl 2-phenylbenzoxazolium chloride, and deriv., 1248¹
 C₁₁H₁₄ClNO: Acetophenone, α (o chlorophenyl) *p* methoxy, oxime 2713¹
 Ammonium chloride, N *p*-anisyl, 1830¹
 α Tolu *p* amide, 2 chloro-, 2713¹

- C H ClNO₂ Benzoin 2 chloro 4 methoxy oxime 99⁷⁴
- C₁₅H₁₁ClNO₃ 1 Benzyl 2 methylbenzothiazonium perchlorate 516¹⁴
- C H ClNO₃ 1 Ethyl 2 phenylbenzoxazolium perchlorate 1250¹
- C₁₅H₁₁ClNO₃ Resorcinol (p nitrophenylazo) compd with EtCOCl 3322¹
- C₁₅H₁₁ClO₄P Ethylphosphonic acid, 2 p amyl 2 (p-chlorophenyl) 4⁷³⁹
- C H ClHgO₃ Methane d amylchloro(chloromercurithio) 2413⁴
- C H ClHgNO₃ 1 Ethyl 2 phenylbenzoxazolium chloride HgCl deriv 1⁷⁵⁰
- C₁₅H₁₁ClFeNO₃ 1 Ethyl 2 phenylbenzoxazolium chloride FeCl₃ deriv 1249⁹
- C₁₅H₁₁F Propene 1 2 difluoro 1 1 diphenyl, 7013⁷
- C₁₅H₁₁NNaO₃ Malonic acid phthalimido- di Et ester Na deriv 49⁷⁷
- C₁₅H₁₁N₂ Carbamide di methyl 2⁷⁰¹
- C₁₅H₁₁N₂ Diazetone phenyl p tolyl 45⁹⁷
- C₁₅H₁₁N₂O Acetamide, N (7 amino 2 fluoryl) 1230
- Acetic acid benzalphenylhydrazide 5151¹
- Nicotinonitrile 1 2 dihydro 2 keto 1,4-dimethyl-6-p tolyl 4582
- 6 ethyl 1 2 dihydro 2 keto 1 methyl-4-phenyl 214³
- Phthalimide 2 (p aminophenyl) 3 methyl 42⁷³
- o-Toluc acid benzalhydrazide 29⁷⁴
- C₁₅H₁₁N₂O₃ Benzothiazole 1 p phenetidin-101¹
- Carbanilide p acetylthio- 3323¹
- C₁₅H₁₁N₂O₃ Acetonitrile α,α (2,4,6 tri methylsulphthyl)bis-, 2985¹
- Acetophenone oxime carbanilate 1506⁹
- Benzaldehyde, oxime o-methylcarbanilate 1506¹
- Malonanilide 1504¹
- Oxanilide N methyl 2941
- C₁₅H₁₁N₂O₃ Benzene acid p (β acetyl β phenylhydrazino) 122⁷⁴
- 3 Pyrazolidone 4 5 dihydroxy 1 2 di phenyl 2145¹
- C₁₅H₁₁N₂O₃ Acetophenone 2 4 dihydroxy, oxime carbanilate 1006¹
- Amsaldehyde 3 (p formylphenoxy), dioxime, 2953⁷
- C₁₅H₁₁N₂O₃ 1(2) 2 Euben sulfonazole, 1 2-dihydro-1 methyl, 925⁷
- C₁₅H₁₁N₂O₃ Acetanilide, 4- (p-methoxy phenoxy) 2 nitro- 1516¹
- C₁₅H₁₁N₂ 4 Isopyrrolenitrile, 2-(4 cyano-3 5-dimethyl 2-pyrrylmethylene) 3 5-dimethyl and salts, 695¹
- C₁₅H₁₁N₂O₃ Acetanilide, p formyl, p-nitrophenylhydrazone, 4243¹
- C₁₅H₁₁N₂O₃ Urea N bis(hydroxymethylbenzyl), P 1261¹, 5397⁷
- C₁₅H₁₁N₂O₃ Thiochroman 4 amino- p-ate, 5425¹
- C₁₅H₁₁N₂S 1 3 4 8-Thiodiazine 5 phenyl 2 p-phenylhydrazino-, 1537¹
- C₁₅H₁₁O Acetophenone p methyl-α-phenyl 1524¹
- Acetophenone α p tolyl, 1524¹
- Aniline, (α-methylenebenzyl), 4238⁷
- ketone 3 acenaphthenyl ethyl 267¹
- 1-α-naphthendione, dimethyl P 1⁷⁶⁰
- C₁₅H₁₁O₂ Acetophenone α (p-amyl), 45⁷⁵
- Acetophenone, 4-hydroxy-3 methyl α phenyl-, 1524¹
- , α (p-hydroxyphenyl)-p-methyl-, 1524¹
- , p-hydroxy-α p tolyl, 1524¹
- , p-methoxy-α phenyl-, 2⁷¹⁴
- Benzophenone, 4-hydroxy-3 5 dimethyl-929¹
- Δ¹ 1 Propenol, 3-(1-naphthyl), acetate 3329¹
- 2 6-Xylenol, benzoate, 929¹
- C₁₅H₁₁O₂ Benzophenone, p p' dimethoxythio-, 1239¹
- Carbonic acid, thio-, di p tolyl ester, 240¹
- C₁₅H₁₁O₂ Benzoin, methoxy-, 1242⁷, 299⁷⁴, 3337¹, 4876¹
- Phenol, p-(p-amyl), acetate, 45⁷³
- o-Toluc acid, α-cresyl-, 512⁷
- p-Tolyl carbonate, 1226¹
- 3 6-Xanthenediol, 9,9-dimethyl-, 3644¹
- C₁₅H₁₁O₂ Acetophenone, α p-amyl-2 4-dihydroxy-, 3327¹, 5675¹
- Benzophenone, 4-hydroxy-2 6 dimethoxy-, 4250¹
- 1,3,8 2 ββ Naphthofurantrione, 2a, 8a dihydro-4 7-dimethyl-, 1833¹
- 4,3 β Naphthopyran-1 acetic acid, 7,8 9,10-tetrahydro-3-keto-, 2426⁷
- 1 2 Pyran 3 carboxylic acid 2 keto-6-methyl-4-phenyl-, Et ester, 2145¹
- C₁₅H₁₁O₂ Methylsuccinic acid, hydroxy-, Me ester, benzoate, 3322¹
- C₁₅H₁₁O₂ Acacetol 2719¹
- Catechol, 2719¹
- Chromone, dihydroxy 2,3-dimethyl-, diacetate, 4250¹, 5671¹
- Compd, m 199¹, from methylmangostin 427⁷⁴
- Coumarin, dihydroxy-3 4-dimethyl diacetate, 4250¹, 5671¹
- Isaacacatechol, 2719¹
- C₁₅H₁₁O₂S Benzene acid, 5 (p-amylsulfonyl) 2-methoxy-, 2137¹
- C₁₅H₁₁O₂ Cinnamic acid, 3,4,5-trihydroxy, triacetate, 3979¹
- C₁₅H₁₁O₂ Cinnamic acid 3,4,5-trihydroxy, tri(methylcarbonate), 3979¹
- C₁₅H₁₁AsN₂O₂ Arsanilic acid, V-(phenyl carbamylacetyl), and Na salt, 5407¹
- C₁₅H₁₁BrN₂O₃ Carbanilide, p-bromo p'-ethoxythio-, 104¹
- C₁₅H₁₁BrN₂S Pseudourea, β-(p-bromophenyl) α γ-dimethyl α phenylthio-, 104¹
- C₁₅H₁₁BrN₂O Benzaldehyde, m-bromo-, 4-o-toluenesemicarbazone, 3634¹
- C₁₅H₁₁BrN₂O₂ Benzylamine, m-bromo N, N dimethyl-, picrate, 91¹
- C₁₅H₁₁BrN₂MoN₃ 3587¹
- C₁₅H₁₁ClN₂ Dibenzylamine, p-chloro-p' fluoro-N methyl-, and -HCl, 923¹
- C₁₅H₁₁ClN₂O o-Cresol, phenylazo-, compd with AcCl, 3321¹
- Phenol p-phenylazo-, compd with EtCOCl 3321¹
- C₁₅H₁₁ClN₂O Benzaldehyde, chloro-, 4-o-toluenesemicarbazone, 3634¹
- C₁₅H₁₁ClCrN₄ 3587¹
- C₁₅H₁₁ClMoN₄ 315⁷
- C₁₅H₁₁ClMoN₄ 549⁷
- C₁₅H₁₁ClN₂Br₂ 3105⁷
- C₁₅H₁₁F₂N₂ Dibenzylamine, o,p-difluoro-N methyl-, and -HCl, 929¹

- C₁₅H₁₅N Benzylamine, *N* benzal *p* methyl, 4243¹
Benzylamine, *N*-*p*-methylbenzal, 4243¹
9-Fluorylaniline, *N*, *N*-dimethyl, -*II Br*, 91¹
—, *N*-ethyl-, 511¹
Phenethylamine, *N* benzal, 1810¹
C₁₅H₁₅NO Acetophenone, 3 propionylamino, 5674¹
Benzyl alcohol, α -(benzylaminomethyl), 1249¹
Ketone, 3 acetophenyl ethyl, oxime, 5674¹
2 Propanone, 1,3-diphenyl, oxime, 5141¹
C₁₅H₁₅NO₂ Acetophenone, α *p*-anisyl, oxime, 2714¹
Acetophenone, *p*-methoxy- α -phenyl, oxime, 2714¹
Benzophenone, *p*-ethoxy, oxime, 3329¹
Hydroxylamine, α (α -benzoylphenyl) β ethyl, 1250¹
 α -Toluanilide, *p*-methoxy, 2714¹
 α -Tolu *p* amide, 2714¹
C₁₅H₁₅NO₂ Acetanilide, *p*-(*p*-methoxyphenoxy), 1816¹
Benzanilide, 3',5'-dimethoxy, 1816¹
Benzene acid, *p*-(*p*-aminophenoxy), Et ester and *HCl*, 2705¹
Benzoin 4 methoxy, oxime, 2992¹ 4875¹
Diphenylammonocarboxylic acid, 3-hydroxy 6,4-dimethyl, P 4283¹
Nicotinic acid, 1 2-dihydro-2 keto-4-methyl 6-phenyl-, Et ester, 1529¹
C₁₅H₁₅NO₂ (See also Thyrone) Acetophenone α *p* anisyl 2,4 dihydroxy, oxime, 3327¹ 5673¹
Cyclohexanol 1-ethyl, *p*-nitrobenzoate, 73¹
C₁₅H₁₅NO₂ Ketone dihydroxymethyl 2-methyl 3-indyl, diacetate, 2720¹
C₁₅H₁₅NO₂ Oxime, m 207°, of compd m 199°, 4277¹
C₁₅H₁₅N₂O Acetophenone 2 phenylsemicarbazone 2701¹
Benzaldehyde, 2 benzylsemicarbazone 2701¹
1,2 Propanedione 1 phenyl 2-oxime, 1 phenylhydrazones, 1827¹
C₁₅H₁₅N₂O₂ Carbanilide *p* acetylthio, oxime 3323¹
Carbanilide, *p*-formyl-*p'* methylthio, oxime 3323¹
C₁₅H₁₅N₂O₂ Carbanilide *p* acetamido-, 1504¹
Methylated, 126¹
3,5 Pyrazolodione, 1,2 diphenyl, *NH*₂ deriv, 2145¹
C₁₅H₁₅N₂O₂ Carbanilide, 5-formyl 2-methoxy, oxime, 3323¹
C₁₅H₁₅N₂O₂ 2 Furanpropionic acid, α benzamido- β -carbamido-, 2143¹
Phenethylamine *N* (2,4-dinitrophenyl) *p* methoxy, 5409¹
C₁₅H₁₅N₂O₂ Benzene, propyl, picrate 1815¹
Hemimellitene, picrate, 1815¹
Mesitylene, picrate, 1815¹
Pseudocumene, picrate 1815¹
C₁₅H₁₅N₂O₂ Carbanilide wtd, wtd, Me ester, azine with *BzH*, and *III*, 2119¹
C₁₅H₁₅N₂O₂ Benzaldehyde, nitro-, 4 α -toluosenecarbazone, 3634¹
C₁₅H₁₅N₂O₂ Pyridine, 3-(2 pyrrolidyl), picrate, 3001¹
C₁₅H₁₅N₂O₂ Ethylenephosphonic acid, 2-*p*-anisyl 2 phenyl-, 4239¹
C₁₅H₁₅ Propane, 1,3-diphenyl, 4543¹
Pseudocumene, α -phenyl 3000¹
C₁₅H₁₅AsN Phenarsazone, 1,6-dihydro-1 propyl, 1831¹
C₁₅H₁₅AsNO 1 benarsazone, 1,6-dihydro-1-propyl, 1-oxide, 1831¹
C₁₅H₁₅AsN₂O₂ Arsanilic acid, aminoquinoline salt, 3909¹
C₁₅H₁₅AsN₂O₂ Arsanilic acid, *N*, *N'* malonyl bis-, 5407¹
C₁₅H₁₅BrN Dibenzylamine, *p*-bromo-*N* methyl, 91¹
C₁₅H₁₅BrNO₂ Cyclohexanol, 1 (1-romoethyl), *p*-aminobenzoate, 73¹
C₁₅H₁₅BrNO₂ 2-Indolecarboxylic acid 6-bromo-3 β glucosidoxo *K* salt, 1522¹
C₁₅H₁₅BrN₂ Benzaldehyde *p*-dimethylamino-, *p* bromophenylhydrazones 4243¹
C₁₅H₁₅BrN₂O Ketone 2 (3 5-dibromo-4 methyl 2 pyrrolimethylene 3,6 dimethyl-4 isopyrrol) ethyl, and *HBr* 3010¹
C₁₅H₁₅ClNO₂ Benzenesulfonamide *N* (β -chloro- α methylphenethyl) 688¹
C₁₅H₁₅ClO₂P 1-thianephosphonic acid 2 *p* anisyl 2 (β -chlorophenyl) 4239¹
C₁₅H₁₅ClO₂Te *p*-Anisyl *p* phenetyl tellurium di chloride 1755¹
C₁₅H₁₅FN Dibenzylamine, fluoro- λ methyl and *HCl* 923¹
C₁₅H₁₅Hg₂O₂ Compd from Et phenylpropionate and Hg(OAc)₂, 71¹
C₁₅H₁₅N₂ Cyclopentanous naphthylhydrazones, 1522¹
C₁₅H₁₅N₂O Acetophenone, α toluene-, oxime, 5141¹
m-Acetotoluene, 4 anilino- 501¹
Carbanilide dimethyl, 1503¹
 Δ -1 Propenone 3 (β -dimethylaminophenyl) 1 (2 pyrrol) 3008¹
10-Pseudosundolobenzimidazolone, 5b 6 7, - 8 9 9a hexahydromethyl 701¹
 α -Toluic acid, β -benzylhydrazide 297¹
Urea *s* dibenzyl 1503¹
—, α phenethyl β phenyl, 5405¹
C₁₅H₁₅N₂O₂ Carbanilide *p*-ethoxythio-, 104¹
C₁₅H₁₅N₂O₂ Hydroxylamine α (α -benzoylphenyl) β -ethyl, oxime, 1250¹
C₁₅H₁₅N₂O₂ Benzenesulfonazole 2 (β -dimethyl aminophenyl) 1 2 dihydro-, 928¹
Carbanilide (*p* β -dimethoxythio- 4242¹
C₁₅H₁₅N₂O₂ 1(2) Pyrimidineacetic acid, 3,6-dihydro-2 6-diketo-3 methyl-4-phenyl, Et ester 516¹
C₁₅H₁₅N₂O₂ 2 Furanpropionic acid α benzamido- β methoxyamino-(?), 2143¹
3 Pyrrolecarboxylic acid, 5,5'-carbonylbis-[2 4 dimethyl 5895¹
Urea *s*-bis(2,4-dihydroxybenzyl)-, P 1261¹, 5399¹
C₁₅H₁₅N₂O₂ Glycine, *N* (2 *N* 2 naphthalenesulfonylalanyl), 2741¹
C₁₅H₁₅N₂O₂ 3-Pyrrolenitrile, 5,5' methylenebis [2,4 dimethyl, 898¹
Pyruvaldehyde, phenylsulfone, 1488¹
C₁₅H₁₅N₂O Benzaldehyde, 4 toluosenecarbazone, 3634¹
C₁₅H₁₅N₂O₂ Benzaldehyde, *p*-dimethylamino-, *p* n-trophenylhydrazones, 4243¹ sulfate, 932¹
Malonic acid, bis(phenylhydrazide), 1504¹
Salicylaldehyde, 4- α -toluosenecarbazone, 3634¹
C₁₅H₁₅N₂O₂ Anisole 2,4,6-trinitro-, compd with PhNMe₂, 835¹

- Mesidine picrate 4333
 Indidine 3,4,6-tetramethyl (?) picrate 3654
- C₁₅H₁₆N₂O₈ Aniline m propoxy picrate 5669²
 C₁₅H₁₆N₂O₈ Picrate m 182° of *p*-pyrrole acid 4263²
- Veratrilamine picrate 1235²
 C₁₅H₁₆N₂O₈ Guanidine α (α-methylbenzyl) picrate 4334
 C₁₅H₁₆O Mesitol α-phenyl 929²
 1-naphthalenecarbinol α-allyl-α-methyl 3330²
- C₁₅H₁₆O Benzophenone di Me acetal, 1798
 Biphenyl, 4-ethoxy-4-methoxy 4873²
 Δ Cyclohexenone, 3-hydroxy-α-γ-phenyl allyl 3319²
 Hydrobenzoin α-methyl 2426²
 Phenol m (γ-phenylpropoxy) 5408²
 1,2-Propanediol 1,1-diphenyl 9464²
 Valerophenone β 2-furyl 1520²
- C₁₅H₁₆O₁₀Te Telluride *p*-anisyl *p*-phenetyl 1755²
 C₁₅H₁₆O₂ Carbinol dianisyl 99²
 C₁₅H₁₆O₂S Anisole, 2-methyl-4-*p*-tolylsulfonyl 2127²
p-Toluenesulfonic acid 3-*o*-xyl ester, 930²
- C₁₅H₁₆O₄ Benzyl alcohol *o*-*o*-methyleneedioxy bis- 5393²
 Methane bis(*p*-methoxyphenoxy) 5393²
 γ-Pentenol acid α acetyl β-keto-*p*-phenyl, Et ester 2976²
 Umbelliferone 3-isopropyl-4-methyl acetate 4869²
 —, 4-methyl 3-propyl acetate 4869²
 C₁₅H₁₆O₅S Anisole methylsulfonylbis- 2127²
 C₁₅H₁₆O₅ Compd m 291° from *Phellodendron amurense* 4870²
 C₁₅H₁₆O₆ See Esculin
- C₁₅H₁₆BrN₂O₂ 2-Pyrrolicarboxylic acid 4-bromo-5 (4-ethyl 3,5-dimethyl 2-isopyrrolicenemethyl) - 3-methyl *HBr*, 111²
- C₁₅H₁₆ClN₂O 4-Quinolanol 3-chloro 2 (1-piperidylmethyl), 2430²
 C₁₅H₁₆ClO₂ Santonin, 3-chloro- 3330²
 C₁₅H₁₆Cl₂N₂Sb 5105²
 C₁₅H₁₆HgI₂S Dibenzylmethylsulfonium mercury triiodide 659²
- C₁₅H₁₆N₂ Amine, γ (γ-phenylpropyl), 1817²
 Benzohydrylamine γ γ,γ-dimethyl and *HBr* 91²
 Benzylamine N-ethyl γ-phenyl, 1501²
 Phenethylamine, N-benzyl, 1810²
 C₁₅H₁₆NO Benzohydrol, *p*-dimethylamino- 1235²
- Ethanol 2-methylamino-1,2-diphenyl, P 4556²
 Phenethylamine, m-benzoyl, and salts 4552²
- C₁₅H₁₆NO₂ *p*-Cresol, α-(*p*-hydroxyphenethylamino), and salts, 3633²
 Cyclohexanol, 1-ethyl, *p*-aminobenzoate, 734²
 Pyrocatechol 4 (β-benzylaminoethyl) - *HCl*, 3633²
 Spiro[cyclopentane 1,3-pyrrolicene] 2,5-dione, 3-methyl 1-phenyl, 4234²
 C₁₅H₁₆NO₂ Cantharone acid, 2-acetoxy 5245²
 4-Homopyrocatechol, α (*p*-hydroxyphenethylamino), salt, 3633²
 Pyrocatechol, 4-(*p*-hydroxybenzylaminoethyl) - *HCl*, 3633²
- 3-Pyrrolicarboxylic acid 2,5-dimethyl 1-methyl-*o*-anisyl, 5411²
 C₁₅H₁₆NO₂S *p*-Toluenesulfono-*p*-phenetide, 90²
 C₁₅H₁₆NO₂ 4-Homopyrocatechol, α (3,4-dihydroxyphenethylamino), *HCl*, 3633²
 3-Indolebutyric acid, 2-carboxy, di Me ester, 514²
 Malonic acid, (4,3-indylbutyl), 514²
 C₁₅H₁₆N₂ Guanidine, di-*o*-tolyl, heptasulfide, 2422²
 3-Pyrrolicnitrile, 2,4-dimethyl-5-(3,4,5-trimethyl 2-isopyrrolicenemethyl), *HBr*, 698²
 C₁₅H₁₆N₂O Pyrrole, 1 (γ-ketovaleryl), phenyl hydrate, 1521²
 C₁₅H₁₆N₂O₂ Guanidine, di-*o*-anisyl, P 712², 3089²
 Spiro[indan 2,4-piperidine] 3,5-dinitrile, hexahydro-2,6-diketo-, 3333²
 C₁₅H₁₆N₂O₃ Trimethylphenylammomium 2,4-di-nitrophenoxide, 4242²
 C₁₅H₁₆N₂O₃ Biurea 6-amino-2-thio-1-*o*-tolyl, 3634²
 Biurea 1-phenyl 2-thio-6-*o*-toluene-, 3634²
 C₁₅H₁₆N₂O₃ Theobromine 1 (β-anisomethyl), 1031²
 C₁₅H₁₆N₂O₃ Benzylamine *p*-dimethylamino-, picrate, 4243²
 C₁₅H₁₆O₂P Ethaneophosphonic acid, 2-*p*-anisyl 2-phenyl 4239²
 C₁₅H₁₆ Tricyclopentadiene, 1507²
 C₁₅H₁₆(AsNO₂) Phenarsazine, 1,6-dihydro-1-propyl, 1,1-dihydroxy deriv., 1831²
 C₁₅H₁₆AuCl₂NO₂S Benzylidimethyl(phenylsulfonyl)ammomium chlorosulfate 5150²
 C₁₅H₁₆Br₂N₂ Isopyrrole, 4-bromo-2 (5-bromo-methyl) 3-ethyl-4-methyl-2-pyrrolic methylene]-3,5-dimethyl, *HBr*, 4280²
 C₁₅H₁₆Br₂O₂ 1,2-dibromocinnamic acid, α,β-dibromo-, cyclohexyl ester, P 4663²
 C₁₅H₁₆Cl₂O₂ Santonin dichloride, 3350²
 C₁₅H₁₆Cl₂N₂Sb 5105²
 C₁₅H₁₆N₂ Benzylamine *p*-dimethylamino-γ-phenyl, 1817²
 C₁₅H₁₆N₂O Ketone, aminomethyl 3,4,5-trimethyl 2-pyrrolic 3009²
 C₁₅H₁₆N₂O₂ Phthalimide, λ (aminotolyl)hexahydro-, 701²
 C₁₅H₁₆N₂O₃ 3-Pyrrolicarboxylic acid, 2 (3,5-dimethyl 2-isopyrrolicenemethyl) - 5-hydroxy-4-methyl, Et ester, 4010²
 3-Pyrrolicarboxylic acid 2 (4-ethyl-3,5-dimethyl 2-isopyrrolicenemethyl) - 5-hydroxy-4-methyl, 4010²
 Trimethylphenylammomium nitrophenoxide, 4242²
 C₁₅H₁₆N₂O₄ Compd, m 177°, from dihydro-monocyclopentadienequinone and N₂CH₂COEt, 1507²
 1(2) Pyrimidineacetic acid, 3,4,5,6-tetrahydro 2,6-diketo-3-methyl-1-phenyl, Et ester, 517²
 Spiro[indapidine - 9, 2-indan] 2,4,6,8-tetrone, hexahydro-, 3333²
 C₁₅H₁₆N₂O 2(1) Pyrazinone, 3,4-dihydro-1,4,6-trimethyl 3-*p*-tolylazomethylene-, and salt, 2431²
 C₁₅H₁₆N₂O₂ Pyrrole, dimethylpropyl, picrate, 3009², 3010²
 C₁₅H₁₆O 1-ether, butyl 1-naphthylmethyl, P 1841²
 C₁₅H₁₆O₂ 1,3-Cyclohexanedione, 5-phenyl 2-propyl, 687²

- 2 Naphthaleneacetic acid, 1,2,3,4 tetrahydro - 1 - hydroxy α 5 8 trimethyl γ -lactone, P 967¹
- C₁₅H₁₁O₂ (See also Saxton's)
- Cinnamaldehyde, α amyl 3,4 methylene-dioxy, 1230²
- 1,3 - Indandione, 2 amyl 4 hydroxy - 7 methyl, 2718¹
- , 2,2 diethyl 4 methoxy 7 methyl, 2718¹
- , 4 hydroxy 2-isoamyl 7 methyl, 2718¹
- 1 2 4 Pentanetriol, 4 (1 naphthyl), 3330²
- C₁₅H₁₁O₂ (See also Arlemis)
- Cinnamic acid, α acetyl β ethoxy Et ester 2976²
- Santonin, oxide, 3350², 5173¹
- C₁₅H₁₁O₂ Succinic acid, α (2 5-dimethylphenyl) β -methyl, 1833²
- C₁₅H₁₁O₂ Santonin, oxime, 5173¹
- C₁₅H₁₁O₂ Santonindicarboxylic acid keto-5173¹
- C₁₅H₁₁AsS Trimethylphenylarsonium thiophenoxide 4242¹
- C₁₅H₁₁BrN₂O₂ Tyrosine, N (α bromoisocaproyl) nitro-, 2694²
- C₁₅H₁₁BrN₂O₂ Benzoic acid α [(N (α -bromo isocaproyl)glycyl)sulfamyl], 492¹
- C₁₅H₁₁BrO₂ Caproic acid methyl, β -bromophenacyl ester, 1820²
- Elaeuthic acid, β bromophenacyl ester 1820²
- C₁₅H₁₁BrO₂ Santonin bromohydrin, 3350²
- C₁₅H₁₁ClN₂O₂ Anthranilic acid N (N-chloroacetyl)leucyl, 492¹
- Benzoic acid, β [(N chloroacetyl)leucyl] amino] 492¹
- Glycine, V [V (α -chlorobenzoyl)leucyl], 491¹
- C₁₅H₁₁ClO₂ Santonin chlorodihydro- 3350²
- C₁₅H₁₁ClO₂ Santonin, chlorohydrin 3349² 3350²
- C₁₅H₁₁N Piperidine 1 (3 4-dihydro-2 naphthyl), 2139²
- C₁₅H₁₁NO Δ^2 Cyclohexanecetamide, methyl 2804²
- Δ^2 -Cyclohexanecetamide methyl 2804²
- Trimethylphenylammonium phenoxide, 4242¹
- C₁₅H₁₁NO₂ See Tropococaine
- C₁₅H₁₁NO₂ Cyclopentanecarboxylic acid 1-carboxy-3 methyl, amic acid, 4234¹
- C₁₅H₁₁NO₂ Santonindicarboxylic acid, keto oxime, 5173¹
- C₁₅H₁₁N₂ Trimethylphenylammonium thio phenoxide, 4242¹
- C₁₅H₁₁N₂ Compd, m 86°, from santens and PhN₂, 1807²
- C₁₅H₁₁N₂O₂ Δ^2 -Cyclohexenone, 4 isopropyl, β nitrophenylhydrazine 4532¹
- C₁₅H₁₁N₂O₂ S Azo dye m 248°, from 2,4 di methyl 3 propylpyrrole and HO₂SC₁₁H₇N₂Cl, 3009²
- C₁₅H₁₁N₂O₂ Glycine, N [N (α -nitrobenzoyl) leucyl], 492¹
- C₁₅H₁₁N₂O₂ Betaine, picrolonate, 701¹
- C₁₅H₁₁BrNO₂ Hydrocinnamic acid, β -(α -bromo isocaproyl)amino, 2694² D D
- C₁₅H₁₁BrNO₂ Tyrosine, N (α bromoisocaproyl)-, 5412¹
- Tyrosine N (α bromoisocaproyl), 2694²
- C₁₅H₁₁BrNO₂ Spero[captho[1,2] 1,3,2,4 dioxathiazine 1,1' pyridine] 8 bromo-4a 5 6 6a,7 8 9 10,10a,10b decahydro-, S-dioxide 947¹
- C₁₅H₁₁ClNO₂ 1 2 3 4,6 7 - Hexahydro - 9,10 - dimethoxybenzo[α]quinolinium chloride 1531¹
- Isoquinoline, 1 (δ -chlorobutyl)-3,4-dihydro-6 7 dimethoxy, HCl 1531¹
- C₁₅H₁₁ClN₂O₂ S Glycine N [N (4-chloro-2 nitro phenylmercapto)leucyl] Me ester 491¹
- C₁₅H₁₁Cl₂O₂ Santonin dihydro-, dichloride, 3350²
- C₁₅H₁₁INO₂ 1 2 3 4 6 7 Hexahydro-9 10-di-methoxybenzo[α]quinolinium iodide 1531¹
- C₁₅H₁₁N₂ Isopyrrole 2 (4,5-dimethyl 2 pyrrol methyl)ethyl dimethyl, HBr, 1127, 4280¹
- Isopyrrole 5-ethyl 2-(5-ethyl-3 methyl 2 pyrrol methyl)ene-3-methyl HBr 3350²
- , 3,4,5-trimethyl 2 (3,4 5-trimethyl 2 pyrrol methyl)ene HBr, 3356²
- Quinolone, 2 (β -diethylaminoethyl) and salts, 4270²
- C₁₅H₁₁N₂O Compd from carboxyapocaine perchlorate 706
- Ketone 3 5-dimethyl 2 pyrrol methyl 3,4,5-trimethyl 2 pyrrol 3009¹
- C₁₅H₁₁N₂O₂ Cyclooctanone oxime carbamate, 3972²
- 2 Indanacetic acid α ,2-dicyanohexahydro-, Et ester 3334¹
- C₁₅H₁₁N₂O₂ Cyclohexanecarboxylic acid, 2 (aminotolylcarbamyl), 701¹
- Cyclohexanone 2 hydroxy-4 5-(isopropyl ideneoxy) (?) phenylhydrazine, 3349²
- C₁₅H₁₁N₂O₂ Kynurenone diethyl ester, d; HCl, 2444¹
- C₁₅H₁₁N₂O₂ Malonic acid, benzylcarbamate-, di Et ester 1493¹
- C₁₅H₁₁N₂O₂ Glucosamine, N hippuryl, 1805²
- C₁₅H₁₁N₂O₂ S Glycine, N [N (α -carboxyphenyl sulfonyl)leucyl] 491¹
- C₁₅H₁₁N₂O₂ Ketone, bis(3,5-dimethyl 2 pyrrol), hydrazine, Ac deriv, 5809²
- C₁₅H₁₁N₂O₂ Spero[ispudine 9 2 indan] 2 6 dione, hexahydro-4 8-dimino-, 3334¹
- C₁₅H₁₁N₂O₂ Alamine, N [N (phenylcarbamyl)alanil]glycyl, 2741¹
- C₁₅H₁₁N₂O₂ Picrate m 193-4°, of base to 43-5° 3007²
- Quinolone octahydro-, picrate, 3007²
- C₁₅H₁₁N₂O₂ 2 Morpholine 4 ethyl-3,6,6 tri methyl, picrate, 5143¹
- C₁₅H₁₁O Cinnamaldehyde α -hexyl 4247¹
- Cyclopentanone 2,5-dicyclopentylidene 2420²
- C₁₅H₁₁O Alantolactone, 2987², 2989², 4005²
- Isoalantolactone 2987², 2989², 4005², 5417²
- C₁₅H₁₁O₂ Hydrocinnamic acid, α acetyl α -di methyl Et ester, 5444¹
- C₁₅H₁₁O₂ Glutamic acid, β phenyl, di Et ester 5161¹
- 3 Hexanol, 5 methyl, acid phthalate 4945¹
- Hydrocinnamic acid, α -acetyl β methoxy- α -methyl, Et ester, 601¹
- 2 Indanomalonic acid, 2-(β , β -dihydroxy propyl)hexahydro- dilactone, 3334¹
- Malonic acid, α -methylbenzyl-, di Et ester, 5154¹
- Santonin, dihydro, oxide, 3350², 5173¹
- Succinic acid, α -(2,5-dimethylphenethyl) β -methyl, 1833²
- C₁₅H₁₁O₂ S Acetic acid, α , α (benzaldehyde) di Et ester, 4393¹
- C₁₅H₁₁O₂ Spero[furan 3(2),2' indan] 2-carboxylic

- acid octahydro-4-hydroxy 5 keto- acetate 2230²
- C₁₅H₂₀O₇ Santonimdicarboxylic acid, dihydroketo-, 517³
- C₁₅H₁₄AN₂O₄ Arsanilic acid N (β-1 piperidyl carbonyl)propionyl, 2705²
- C₁₅H₁₈BrN₂O₃ p-Toluenesulfonamide, N (N (α-bromoisopropionyl)ethyl, 492²
- C₁₅H₁₈Cl₂O₂ Santonim chlorotetrahydro-, 3350²
- C₁₅H₁₈Cl₂O₂ Santonim, dihydro-, chlorohydrin, 3350²
- C₁₅H₁₈N₂S₂ Thiazole, 2 (3 (3 ethyl-4-methyl-2(3) thiazolylidene)propenyl 4 methyl, ethoxide, 704²
- C₁₅H₁₈NO₂ (See also *β-Eucaine*) Allylamine, N (2 allyl 6-methoxyphenoxylethyl), P 1037²
- 11 b-Benzalquinolizone, 1,2 3 4 6 7 hexahydro-9 10-dimethoxy, and HCl, 1531²
- 2 Indeneacetic acid α-cyano-3a,4,5,6,7,8 hexahydro-α-methyl, Et ester, 3333², 3334²
- 1 Piperidinoethanol, 3 methyl, benzoate, HCl, P 1037²
- C₁₅H₁₈NO₂ Santonimamide, 1534², 2149²
- C₁₅H₁₈NO₂ Santonim, dihydro-, oxide, oxime, 3300²
- C₁₅H₁₈NO₂ 2 Pyrrolicarboxylic acid, 4 (β,β-di carboxyethyl)-3,5-dimethyl, Et di Me ester, 301²
- C₁₅H₁₈NO₂ 1 Propanol, 3-methoxy 2 2 bis(methoxymethyl), p nitrobenzoate, 1807²
- C₁₅H₁₈N₂O₂ 2-Butyromorphone, 5,6,7 8-tetrahydro-, semicarbazone 943²
- C₁₅H₁₈N₂O₂ (See also *Phytostigmine*) Cyclohexanone, 4-oxopropyl, p nitrophenyl hydrazone, 4532²
- C₁₅H₁₈N₂O₂ Glycine, N (4 (p-aminobenzoylethyl), 491²
- Spiro[heptan-2,4'-piperidine] - 2, 8' - di carboxamide, hexahydro-2,6-diketo-, 3333²
- C₁₅H₁₈N₂O₂ Tyrosine, N leucylmido-, 2694²
- C₁₅H₁₈N₂O₂ Carbohydrazide, α (α methylbenzyl)-β-1 piperidylcarbonyl, 4269²
- C₁₅H₁₈N₂O₂ Amylamine picrolonate, 704²
- Isomylamine, picrolonate, 704²
- C₁₅H₁₈N₂O₂ Cedrene, 4542²
- Unsaturated terpene from alc resulting from the oxidation of cedrene, 1513²
- C₁₅H₁₈BrNO₂ Valeramide, 4 bromo-N (3,4-dimethoxyphenethyl), 1530²
- C₁₅H₁₈Br₂ Cedrene, dibromide, 4542²
- C₁₅H₁₈ClNO₂ 1-Octanol, 8-chloro-, carbamate, 5395²
- C₁₅H₁₈ClNO₂ Valeramide, 8-chloro-N (3,4-dimethoxyphenethyl), 1530²
- C₁₅H₁₈N₂ Indole, 3-(β-diethylaminoethyl) 2-methyl, P 2153²
- C₁₅H₁₈N₂O Apocynidine, and pichloride, 4002²
- C₁₅H₁₈N₂O Apocynidine, hydroxy, 4275²
- Levulonic acid, Bu ester, phenylhydrazones, 490²
- Isobutyl ester phenylhydrazones, 490²
- Spiro[heptan-2,4'-piperidine] - 3 nitric, hexahydro 6-hydroxy 2 keto-6 methyl, 3335²
- C₁₅H₁₈N₂O₂ Carbamate acid, p-acetamido-, hexyl ester, 3404²
- Hydroxamic acid β-leucylamino-, 2694²
- C₁₅H₁₈N₂O₂ Tyrosine, β-leucyl, 2694²
- C₁₅H₁₈N₂O₂ 2,4-Pyrrolicarboxylic acid, 6-formyl-3 propyl, di Et ester, semicarbazone, 3010²
- C₁₅H₁₈N₂O₂ Salicylic acid, 5-sulfo-, di Me ester, compd with hexamethylenetetramine, 3322²
- C₁₅H₁₈O₂ Alantolactone, dihydro-, 2987², 4005²
- Bitter principle, m 174², from plant root 2989²
- Caprylic acid, p-tolyl ester, 2692²
- , p-tolyl, P 5249²
- o-Cresol, 4 butyl-6-ethyl, acetate, 829²
- Eranthacetic acid, xyl ester, 8291²
- Eranthophenone, hydroxy-3,5-dimethyl, 9291²
- Isovalantolactone, dihydro-, 4005²
- Pelargonophenone, hydroxy, 1229²
- C₁₅H₁₈O₂ Acetic acid, (o-heptylphenoxyl), 1229²
- Cleavage anhydride, 3635²
- Santonim, tetrahydro-, 708²
- α-Toluc acid, α-(α-hydroxy-α-propylbutyl), 2087²
- C₁₅H₁₈O₂ Dimethyl ester, b.p. 128-8°, of acid from caryophyllene, 2985²
- Spiro[heptan-3(2),2'-indan] 2-carboxylic acid, octahydro-5-keto-, Et ester, 3334²
- α-Spiroheptanone-1-carboxylic acid, 2,4-di keto-6-methyl, Et ester, 280²
- C₁₅H₁₈O₂ Asaronic acid, isomyl ester, 5154²
- 2,2 Indandiacetic acid, hexahydro-α-keto-, di Me ester, 3335²
- 2 Indandiacetic acid, 2 acetylhexahydro-, 3335²
- Spiro[heptan-3(2),2'-indan] - 2-carboxylic acid, octahydro-4-hydroxy 5-keto-, Et ester, 3335²
- C₁₅H₁₈O₂ Glucose, 6-Me ether, tetraacetate 4230²
- Mannopyranoside, tetraacetyl-β-methyl, 1222²
- C₁₅H₁₈BrO₂ 2,2-Indandiacetic acid α-bromohexahydro-, mono-Et ester, 3334²
- C₁₅H₁₈BrNO₂ 3,γ-Dibromopropyltrimethylammonium theobromine-1 acetate, P 2814²
- C₁₅H₁₈ClS Sulfide, α-chlorononyl phenyl, 5395²
- C₁₅H₁₈NO 2-Naphthol, 2-(diethylaminoethyl) 1,2 3 4 tetrahydro-, and salts 3645²
- 1 Piperidinoethanol, α-ethyl-α phenyl, HCl, 4276²
- C₁₅H₁₈NO₂ Propylamine, γ-(2-allyl-6-methoxyphenoxyl) N-ethyl, P 1037²
- C₁₅H₁₈NO₂ Dimethic acid, 1,2(and 1,4)-di hydro-1,2,4,6-tetramethyl, di Et ester, 2954²
- 2,4 Pyrrolicarboxylic acid, 5-ethyl 3 propyl, di Et ester, 3010²
- C₁₅H₁₈NO₂ Pelargonic acid, 6-phenylsulfonamido-, 490²
- C₁₅H₁₈NO₂ Mannosamide, 2,3,6-trimethyl, 4529²
- C₁₅H₁₈NO₂ Glucosyl 6-amine, acetone tetraacetyl, 1213²
- C₁₅H₁₈NO₂ Caprylophenone, 6-hydroxy, semi carbasate, 1229²
- 4 Quinone, p-nitrophenylhydrazones, 5663²
- C₁₅H₁₈ (See also *Caryophyllene*) Cedrene, 4542²
- Cedrene, 1513², 4542²
- Clovene, 3635²
- Fokierene, 1513²
- Isopikene, 1513²
- Isocaryophyllene 4542²
- Monocyclic sesquiterpene, b.p. 135-8°, from elecampane oil, 2987²

- Nonane, 1 phenyl 3469^a
 Sesquicubane, 4542^a
 C₁₁H₁₅BrNO₃S Butanesulfono-*m* toluide, 6'-bromo 6'-hydroxy, butanesulfonate, 5408^a
 C₁₁H₁₅N₃O Aponucidine, dihydro-, 4275^a
 Lupandine, 3006^a
 Lupanine, 3006^a, 4274^a, and Hf, 3006^a, 2147^a
 C₁₁H₁₅N₃O₂-HCl See *Pantocaine*
 C₁₁H₁₅N₃O₂ Benzoic acid, 3 amino-4-ethoxy β-diethylaminoethyl ester, -HCl, P 3131^a
 C₁₁H₁₅N₃O₂ 2 Desoxygluconic acid, 3,4,6 tri methyl, phenylhydrazide, 4231^a
 C₁₁H₁₅N₃O₂ Malonic acid, ureidobis- tetra Et ester, 4853^a, 5398^a
 C₁₁H₁₅N₃O₃ *m* Toluenesulfonic acid, 4 methoxy, Me ester, compd with hexa methylenetetramine, 3322^a
 C₁₁H₁₅N₃O₃ Tripropylamine, picrate 70^a
 C₁₁H₁₅N₃O₃ 2-Butanol, 1-diethylamino-3 methyl, picrate, 2691^a
 Tripropylamine, stypheate, 70^a
 C₁₁H₁₅N₃O₃ Spiro[cyclopentane-1,2-andan]-3,4 dione, hexahydro-, disemicarbazone, 3335^a
 C₁₁H₁₅O Cedrenol, 4542^a
o-Cresol, (α, α, γ trimethylsomy), 931^a
 Ether, (α, m and β) tolyl α, α, γ trimethylsomy, 931^a
 Phenol, nonyl, 1229^a
 Xylenol, heptyl, 929^a
 C₁₁H₁₅OS 1 Nonanol, 9-phenylmercapto-, 5395^a
 C₁₁H₁₅O₂ Alantolactone, tetrahydro-, 2987^a, 4005^a
 Benzaldehyde, di Bu acetal, 1798^a
 Desoxysantonin, tetrahydro-, 708^a, 2987^a
 Desoxy-α-tetrahydroxysantonin, 3350^a
 Phenol, *m*-(nonyloxy), 5408^a
 C₁₁H₁₅O₂ 2 Indanacetic acid, 2 acetylhexahydro-, Et ester, 3335^a
 Santonin, hexahydro-, 961^a
 C₁₁H₁₅O₂ Clovenic acid, 3658^a
 2,2-Indandiacetic acid, hexahydro- di Me ester, 3333^a mono-Et ester, 3334^a
 Methyl ester of diketic acid from caryophyllene, 2988^a
 C₁₁H₁₅O₂ Corchoric acid, 3657^a
 C₁₁H₁₅O₂ 1,2-Cyclohexanedicarboxylic acid 3 (carboxymethyl) 2,4-dimethyl, tri-Me ester, 3657^a
 C₁₁H₁₅O₂ Propanetetra-carboxylic acid, tetra-Et ester, 1803^a, 2695^a
 C₁₁H₁₅O₂ Anhydroglucose, 5-glucondoacetone-, 85^a
 C₁₁H₁₅BrN₃O₂ Leucine, N [N [N (N-bromoacetyl)glycyl]glycyl]alanyl, 2693^a
 C₁₁H₁₅ClN₃O₂ Pentamethanum perchlorate, 1,5-bis-*N* piperidino-, 1829^a
 C₁₁H₁₅IN₃O₂ Succinamide, lupinyl, methiodide, 3007^a
 C₁₁H₁₅NO Acetamide, *N* (dodecacydro-9-fluoryl), 511^a
 C₁₁H₁₅NO₃ Mesitylbesulfonamide, *N* heptyl, 2704^a
 C₁₁H₁₅N₃O₂ 2 Indanacetic acid, 2 acetonylhexahydro-, semicarbazone, 3335^a
 C₁₁H₁₅N₃ Semicarbazide, 1,2 di *sec* butyl-4 phenylthio-, 2416^a
 C₁₁H₁₅OP Phosphine *p* amylidibutyl, 283^a
 C₁₁H₁₅Br: Naphthalene, 1 bromo-2-(β-bromo-isopropyl)decacydro-4a,8-dimethyl-, 2987^a
 C₁₁H₁₅ClN₃O₂ Isovaleric acid, β [V (V-chloroacetyl)leucyl]glycylamino], 78^a
 C₁₁H₁₅HgI₂P Methylidipropyl 2,5-xylylphosphonium iodide Hg₂ deriv, 2702^a
 C₁₁H₁₅IP Methylidipropyl 2,5-xylylphosphonium iodide 2702^a
 C₁₁H₁₅IP Methylidipropyl 2,5-xylylphosphonium iodide, 2702^a
 C₁₁H₁₅N₃ See *Sparteine*
 C₁₁H₁₅N₃O Base from lupanine, and salts, 3006^a, 2147^a
 C₁₁H₁₅O Cadinol 4842^a
 Caryophyllene alcohol 1332^a
 Cryptomeradol, 2989^a
 Δ¹¹ 1,3 Dodecatriol 3,7,11 trimethyl, 1795^a
 Pokenol 1513^a
 Macholol, 2989^a
 C₁₁H₁₅O₂ Unsatd glycol, b.p. 168-70°, from reduction of alantolactone 2988^a
 C₁₁H₁₅O₂ Orthoacetic acid, phenyl, Et diisopropyl ester, 2135^a Et di Pr ester 2135^a
 C₁₁H₁₅O₂ Malonic acid, dimethyl, monomethyl ester, 289^a
 C₁₁H₁₅O₂ 1 1 Cyclobutanedicarboxylic acid, 3-amox, di Et ester 2970^a
 C₁₁H₁₅O₂ 1 1 3 Propanetricarboxylic acid, 1 2 3 trimethyl, tri Et ester, 82^a
 C₁₁H₁₅O₂ Maltolone, monoacetyl methyl, 86^a
 C₁₁H₁₅NO₂ 9-Fluorylamine, dodecacydro-, acetate, 511^a
 C₁₁H₁₅NO₂ Acetamide, *N*-cyclohexyl-*N*-(hydroxy β β-dimethylpropyl), acetate 1810^a
 C₁₁H₁₅N₃O₂ Alanine, alanylalanylalanylalanyl, 5892^a
 C₁₁H₁₅OP (β-Ethylphenyl)methylidipropylphosphonium hydronide, 263^a
 C₁₁H₁₅N₃O₂ Isovaleric acid, β-[N (N-glycyl)leucyl]glycylamino], 78^a
 C₁₁H₁₅O₂ 2 Naphthaleneethanol, decacydro-1 hydroxy β β-8-trimethyl 2987^a
 C₁₁H₁₅O₂ Butyric acid γ methoxy, 3 β menthyl ester, 5672^a
 Epicamphor, 3 hydroxy-3 methyl, di Et acetal, 4871^a
 Isobutyric acid, α methoxy, methyl ester 289^a
 Macholol, dihydroxy, 2989^a
 C₁₁H₁₅O₂ Malonic acid, (α-ethylpropyl)isopropyl, di Et ester, 1219^a
 C₁₁H₁₅BrO₂ Lauric acid, α-bromo-, isopropyl ester, 5683^a Pr ester, 5663^a
 C₁₁H₁₅NO Isovaleramide, *N*-3-*p*-menthyl, 1233^a
 C₁₁H₁₅ClNO Acetamide, α-chloro-*N* tridecyl, 4267^a
 C₁₁H₁₅O₂ Pentadecanoic acid, Ag salt, 1483^a
 C₁₁H₁₅NO₂ Lauric acid, α-amino-, isopropyl ester, 4850^a Pr ester, 4850^a
 C₁₁H₁₅ Dodecane, 6-ethyl 7 methyl-, 961^a
 Dodecane, 6 propyl-, 961^a
 Hendecane, 4-methyl-6-propyl-, 961^a
 Hydrocarbon, b.p. 242°, from sparteine, 961^a
 C₁₁H₁₅O 6-Dodecanol, 6-ethyl 7 methyl-, 961^a
 6-Dodecanol, 6 propyl-, 961^a
 6-Hendecanol, 4 methyl-6-propyl-, 961^a
 C₁₁H₁₅Ar Arane, trisomy, 681^a
 Arane, tri(β-methylbutyl), 681^a
 C₁₁H₁₅Ar: Arane, triamyl, dibromide, 1485^a
 C₁₁H₁₅ArCl: Arane, triamyl, dichloride, 1485^a

- C₁₅H₁₃AsO Arsenic triamyl, oxide 148.³
 C₁₅H₁₃Bi Bismuthine, triamyl, 2970.⁸
 C₁₅H₁₃Br₂ClNPh₂Si, 4194.¹
 C₁₅H₁₃AsI₃ Triethylsulfonium iodide CHI,
 compd., 282.⁹
 C₁₅H₁₃NO₂ Pentadecanetriol, amino-, 5394.⁸
 C₁₅H₁₃ClN Trisoamylammonium chloride 2626.⁸
 C₁₅H₁₃IN Trisoamylammonium iodide, 2626.⁸
 C₁₅H₁₃CoN₂S₂ + 6H₂O 1177.⁸
 C₁₅H₁₃Br₂N₂O₂FW₁₁ Choline, bromo-, phos-
 photunestrate, 657.⁹
 C₁₅H₁₃N₂O₂FW₁₁ Choline phosphotungstate,
 657.⁹
 C₁₅H₁₃Br₂N₂O₂ Indigotin, 5,5',6,6' tetrabromo-,
 700.⁸
 C₁₅H₁₃O₂ Anhydride, m 268°, from acid formed
 in oxidation of ergosterol, 114.¹
 C₁₅H₁₃Br₂O₂ Benzo[*g*]thiophanthrene-6,11-dione
 8-bromo-, 5165.¹
 C₁₅H₁₃Br₂O₂ 3,2-anthraanthrene-1,6,11(2)
 trione, 2-bromo-, 2723.¹
 C₁₅H₁₃Br₂N₂O₂ α-Benzophenazone, tribromo-, 946.⁴
 C₁₅H₁₃ClO₂ Benzo[*g*]thiophanthrene-6,11-dione,
 8-chloro-, 5165.¹
 C₁₅H₁₃NO₂ 1 Anthraquinonecarboxylic acid 4-
 cyano-, 698.¹
 C₁₅H₁₃Br₂N₂O₂ 1(2) Phthalazone, 4 hydroxy
 tro-, Ba deriv., 4001.¹
 C₁₅H₁₃Br₂N₂O₂ Indigotin, 6,6' dibromo-, 700.⁸
 C₁₅H₁₃Cl₂N₂SS₂ Pseudoadoxyl[3,1'(1')]thio-
 naphthen 2-one, complex from SnCl₄,
 103.¹
 C₁₅H₁₃Cl₂NO₂ Anthraquinone, 1 trichloroacet
 amido-, 293.¹
 C₁₅H₁₃CoN₂O₂ 1(2) Phthalazone, 4 hydroxy
 tro-, Co deriv., 4001.¹
 C₁₅H₁₃CuN₂O₂ 1(2) Phthalazone, 4-hydroxy
 tro-, Cu deriv., 4001.¹
 C₁₅H₁₃N₂N₂O₂S₂ Indigo carmine 3390.⁸
 C₁₅H₁₃N₂O₂ Phthalimide, 4-phthalimido- 1511.¹
 C₁₅H₁₃N₂O₂ Benzo[*e*]phenothiazine 9,11-dim-
 tro-, 3331.¹, 3338.¹
 C₁₅H₁₃N₂O₂ 2,2-Stilbenedinitrile 4,4-dinitro-
 3644.¹
 C₁₅H₁₃N₂N₂O₂ 1(2) Phthalazone 4 hydroxy
 nitro-, Ni deriv., 4001.¹
 C₁₅H₁₃O₂S₂ Benzo[*g*]thiophanthrene-6,11-dione
 5165.¹
 C₁₅H₁₃O₂S₂ See *Thionidigo red*
 C₁₅H₁₃O₂S₂ 2,6-meso-Anthraanthrene-3-carboxy-
 lic acid, 8-keto- P 5177.¹
 3,2-α-Anthraanthrene 1,6,11(2) trione
 2723.¹
 C₁₅H₁₃O₂ Anthracenedicarboxylic acid 9-hy-
 droxy, lactone 950.⁴
 C₁₅H₁₃O₂ Benzo[*g*]thiophanthrene-6,11-dione
 dihydroxy, 5166.¹
 C₁₅H₁₃O₂S₂ Diphtalyl disulfide 93b.
 C₁₅H₁₃O₂ 1,4-Anthracenedicarboxylic acid 9,10-
 dihydroxy, mono-γ-lactone 69.¹
 Phthalic anhydride, 3 phthalidyl, 5418.¹
 Pseudanthrahydroquinone 1,2 dicarboxy
 lic acid lactone 949, 950.¹
 C₁₅H₁₃O₂S₂ Benzo[*g*]thiophanthrene-6,11-dione,
 7,8,10 (or 7,9,10) trihydroxy, 5166.¹
 C₁₅H₁₃O₂S₂ Benzo[*g*]thiophanthrenesulfonic acid
 6,11-dihydro-6,11-diketo- and Na salt
 5165.¹
 C₁₅H₁₃O₂ Anthraquinone carboxylic acid 698,
 949, 950.⁴
 1,1 (2,2) -probi(isobenzo[*f*uran]) - 3 car-
 boxylic acid, 2,2-diketo-, 5418.¹
 C₁₅H₁₃Br Fluoranthene, bromo-, 5163.¹
- C₁₅H₁₃BrN₂ α-Benzophenazone, 5-bromo-, 94.⁴
 C₁₅H₁₃BrN₂O₂ Indirubin, bromo-, 1522.⁸
 C₁₅H₁₃BrO₂ Benzo[*e*]phenothiazine, 10-bromo-,
 3338.¹
 C₁₅H₁₃BrO₂ 1 Thionaphthene carboxylic acid
 2-(*p*-bromobenzoyl), 5165.¹
 C₁₅H₁₃Br₂NO₂ Canthophen, 6,8-dibromo-, 960
 1,4-Naphthoquinone, 3,6-dibromo-2-hy-
 droxy, 946.¹
 C₁₅H₁₃Br₂NO₂ 1,4-Naphthoquinone, 2-amino-
 6,8-dibromo-5 hydroxy, 512.¹
 C₁₅H₁₃Br₂NO₂ 1,4-Naphthoquinone, 6-amino-
 ambobromobromo-, 1316.¹
 C₁₅H₁₃ClO₂ 1 Thionaphthene carboxylic acid,
 2 *p*-chlorobenzoyl, 5165.¹
 C₁₅H₁₃ClO₂ 1 Anthraquinone carboxylic acid, 4-
 chloro- Me ester, 3841.¹
 C₁₅H₁₃NO₂ Anthra[2,1 *β*]pyrrole-1,2 dione, 948.¹
 Fluoranthene, 3-nitro-, 5163.¹
 C₁₅H₁₃NO₂ 3 Benzo[*g*]thiophanthrene-6,11-dione,
 amino-, 5166.¹, 5167.¹
 2 Thionaphthene carboxylic acid, 1-anthra-
 nyl cyclic lactam, 5167.¹
 C₁₅H₁₃NO₂ Anthr[2,1] *p*-isothiazine-2,7,12(3)
 trione 2723.¹
 Benzo[*g*]thiophanthrene 6,11-dione,
 7 (and 10) amino-10 (and 7) hydroxy-,
 5165.¹
 C₁₅H₁₃NO₂ Anthra[1,10 *β*]pyrrole 4 car-
 boxylic acid, 2,6-dihydro-3 hydroxy-6-
 keto- 1242.¹
 C₁₅H₁₃NO₂ 2-Thionaphthene carboxylic acid,
 1-*o* (and *p*) nitrobenzoyl 5166.¹
 C₁₅H₁₃ Fluoranthene 1244.¹, 5163.¹
 C₁₅H₁₃Br₂NO₂ Canthophen, 4' bromo-, 960.¹
 1,4-Naphthoquinone, bromo-2 hydroxy
 V phenyl, 945, 946.¹
 C₁₅H₁₃Br₂NO₂ 1,4-Naphthoquinone, 2-amino-6
 bromo-5-hydroxy, 512.¹
 C₁₅H₁₃Br₂O₂ 2 Naphthal, 1 (2,5-dibromophenyl
 mercapto), 3338.¹
 C₁₅H₁₃CaN₂O₂ 1(2) Phthalazone, 4-hydroxy,
 Ca deriv 4001.¹
 C₁₅H₁₃ClNO₂ Anthraquinone 1 amino-2 (*β*
 chlorovinylmercapto), 2724.¹
 C₁₅H₁₃ClNO₂ Anthraquinone 1-chloroacet
 amido-, 293.¹
 C₁₅H₁₃Cl₂N₂ Quinaldine, α 3 dichloro-6-iodo-
 4 *p*-iodoanilino, and HCl, 2430.¹
 C₁₅H₁₃Cl₂NO₂ Compd, m 179°, from *m*, *o*-di-
 chloroacetanilide 2430.¹
 C₁₅H₁₃Cl₂N₂O₂ Glyoxime, dichloro-, di Br deriv,
 80.¹
 C₁₅H₁₃ClO₂ Benzene acid, 2,6' dichloro 5-
 methoxy 2,4-carboxylic, P 2154.¹
 C₁₅H₁₃CoN₂O₂ 1(2) Phthalazone, 4 hydroxy,
 Co deriv., 4001.¹
 C₁₅H₁₃CuN₂O₂ 1(2) Phthalazone 4 hydroxy,
 Cu deriv., 4001.¹
 C₁₅H₁₃FN₂O₂ Naphthalene 1 (and 2) fluoro-,
 picrate, 4544.¹
 C₁₅H₁₃INO₂ Canthophen, iodo- 3066.⁸
 C₁₅H₁₃N₂ 2,2-Stilbenedinitrile, 3644.¹
 C₁₅H₁₃N₂N₂O₂ Indigotin, Na deriv, compd
 with NaOH 103.¹
 C₁₅H₁₃N₂O₂ See *Indigotin*
 C₁₅H₁₃N₂O₂ Benzo[*g*]thiophanthrene 6,11-di-
 one, 7,10-diamino-, 5166.¹
 C₁₅H₁₃N₂O₂ Furazone, 3 4-dibenzoyl, 3338.¹
 C₁₅H₁₃N₂O₂ 5(4)-Oxazolone, 3 (*o*-nitrobenzyl) 2-
 phenyl, 3342.¹
 C₁₅H₁₃N₂O₂ 2(1) Naphthalene, 1 nitro-1
 (nitrophenylmercapto), 425.⁴

- 2 Naphthol, nitro-1 (nitrophenylmercapto) 4257^a
- C₁₅H₁₁N₂O₂ 1(2) Phthalazone 4 hydroxy N₂ deriv, 4001^a
- C₁₅H₁₁N₂O₂ Cinchonoyl anide 6-hydroxy 2 phenyl, 4553^a
- C₁₅H₁₁N₂O₂ 2 Naphthylamine λ persyl 555^a
- C₁₅H₁₁N₂O₂ Fluorobenzene, 957^a
- C₁₅H₁₁N₂O₂ 1,3,4-Oxadiazole 2 2 azobis[5 phenyl], 498^a
- C₁₅H₁₁O₃ 3 Fluoranthanol 5163^a
- C₁₅H₁₁O₃ Benzof[α]phenanthrene, 3335^a
- Benzof[β]thiophanthrene 5166^a
- C₁₅H₁₁O₃ Benzene acid, α -(1 thionaphthyl carbonyl) 5165^a
- Fluoranthenesulfonic acid, 5163^a
- Thionaphthencarboxylic acid benzoyl 5165^a, 5166^a
- C₁₅H₁₁O₃ Anthracenedicarboxylic acid 9-hydroxy, 950^a & 4
- 2 Anthraquinonecarboxylic acid 4 methoxy, P 3361^a
- C₁₅H₁₁O₃ Anthracenedicarboxylic acid 9,10-dihydroxy, 697^a, 949^a
- Phthalic acid, 3 phthalidyl 5418^a
- C₁₅H₁₁O₃ Compd m 337.8° from roots of *Euphorbia formosensis* 4870^a
- C₁₅H₁₁O₃ 2,2,4,5 Biphenyltetracarboxylic acid, 3,4,6 trihydroxy 29^a
- C₁₅H₁₁O₃ Benzof[β]thiophanthrene 5166^a
- C₁₅H₁₁Br₂N₂O₂ Phthalaz-1-one 2,6-dibromo-4-amino-3-phenyl Ac deriv 4273^a
- C₁₅H₁₁Br₂N₂O₂ Phthalazine 2 (2,6-dibromo-4-nitrophenyl) 1,2-dihydro 4-methoxy 1-methylene- 4273^a
- C₁₅H₁₁Br₂N₂O₂ Phthalazine-4-acetic acid 1-hydroxy-3-(2,6-dibromo-4-nitrophenyl) 1,3-dihydro- 4273^a
- C₁₅H₁₁Br₂N₂O₂ Phthalazine-1-sulfonic-4-acetic acid 3 (2,6-dibromo-4-nitrophenyl) 1,3-dihydro-, mono-*Na* salt, 4273^a
- C₁₅H₁₁Br₂O₂ 1,4,5 Naphthalenetriol, 2,6,8 tri-bromo-, trisacate, 512^a
- C₁₅H₁₁ClN₂O₂ 2,6 Naphthalenediol, 1-chloro-5-phenylazo-, 5152^a
- C₁₅H₁₁ClN₂O₂ Glyoxime, chloro- di-Bz deriv 79^a
- C₁₅H₁₁ClO₂ Anthraquinone 5-chloro-1,4-di-methoxy, 3648^a
- C₁₅H₁₁ClO₂ Benzene acid chloromethoxy carbonylbis, P 2154^a & 4
- C₁₅H₁₁Cl₂N₂O₂ Phthalaz-1-one, 2' 6-dichloro-4-amino-3-phenyl, Ac deriv 4273^a
- C₁₅H₁₁Cl₂N₂O₂ Phthalazine 2 (2,6-dichloro-4-nitrophenyl)-1,2-dihydro 4-methoxy 1-methylene-, 4273^a
- C₁₅H₁₁Cl₂N₂O₂ Phthalazine-4-acetic acid 1-hydroxy-3 (2,6-dichloro-4-nitrophenyl) 1,3-dihydro-, 4273^a
- C₁₅H₁₁Cl₂N₂O₂ Phthalazine-1-sulfonic-4-acetic acid, 3 (2,6-dichloro-4-nitrophenyl) 1,3-dihydro-, mono-*Na* salt 4273^a
- C₁₅H₁₁Cl₂N₂O₂ Desoxyunigo, complex from *SnCl₄*, 103^a
- C₁₅H₁₁N α -Benzocarbazole, 2722^a
- 3 Fluorantheneamine and *HCl*, 5163^a
- Iodeno[3,2- β]quinoline, 1253^a
- C₁₅H₁₁NO₂ (See also Cinchophen)
- Atropine, β -hydroxy, benzoate, 4541^a
- Benzene acid β 2 quinolyl, 5427^a
- Ketone, 8-hydroxy-5-quinolyl phenyl, and deriv, 106^a
- 1 Quinolene-carboxylic acid, 2-phenyl, 5427^a
- 8 Quinolene benzoate, and *HCl*, 106^a
- C₁₅H₁₁NO₂ 1,2 Benzopyran-3-carboxamide, 2-keto- 5671^a
- Cinchophen hydroxy, 4883^a, 4900^a
- 1 Iodanone 2- α -nitrobenzyl, 1233^a
- C₁₅H₁₁NO₂ 2 Thionaphthencarboxylic acid 1 [m (and β) aminoethoxy], 5167^a
- 2 Thionaphthencarboxylic acid, 1 anthranoyl 5167^a
- C₁₅H₁₁NO₂ 2 Anthraquinonecarboxylic acid 1-amino- Me ester P 065^a, P 2435^a
- Cinchophen 2,4-dihydroxy, 700^a
- C₁₅H₁₁NO₂ Acetic acid (1-amino-2-anthraquinonylmercapto) γ salt 2723^a
- C₁₅H₁₁NO₂ 2 Anthraquinonecarboxylic acid, 4-(aminomethyl) 3-hydroxy, 1242^a
- 1 Benzofuran-carbinol β nitrobenzoate 1240^a
- C₁₅H₁₁NO₂ Phthalide 4-hydroxy-3-methoxy nitrobenzoate 2150^a
- C₁₅H₁₁N₂O₂ Indigotin compd with *NaOH* 103^a
- C₁₅H₁₁N₂ 3 Quinolene-trile 2-amino- 1253^a
- C₁₅H₁₁N₂O₂ Pyrazolo[4-3- γ]quinolin 3(5)-one 4-phenyl 1830^a
- C₁₅H₁₁N₂O₂ (See also *Para red*)
- Cinnamamide α cyano- α -nitro-, 1253^a
- C₁₅H₁₁N₂O₂ Benzene acid (1,2,3,4-tetrahydro-1,3-diketo-4-isoquinolylazo), 3648^a
- C₁₅H₁₁N₂O₂ Phthalimide *N* amsalanone, 1511^a
- C₁₅H₁₁N₂O₂ 2 Naphthol 3-sulfonic acid 1 (β -nitrophenylazo) γ salt 2135^a
- C₁₅H₁₁N₂O₂ Naphthalene picate, 1815^a, 5903^a
- C₁₅H₁₁N₂O₂ Naphthol picate, 1816^a
- C₁₅H₁₁N₂O₂ 3 Triazolo[3,4- β]quinazolin 5(1)-one, 3-methyl 1 (β -nitrophenyl), 3651^a
- C₁₅H₁₁AsCl₂ Arsine, chloro-1-naphthylphenyl 1511^a
- C₁₅H₁₁BrNO₂ Quinolene 4-bromo-6-methoxy-2-phenyl, 4884^a
- C₁₅H₁₁BrNO₂ Anthraquinone 1 (β -bromoethyl) amino-, 947^a
- C₁₅H₁₁Br₂ Anthracene 9,10-dibromo 2,3-dimethyl, 3646^a
- Dibromo deriv, does not m 310°, of hydrocarbon m 179-80° 1235^a
- C₁₅H₁₁Br₂NO₂ β Toluquinone, 3,6-dibromo 5 (4-bromo-8-nitro-2-methyl), 5410^a
- C₁₅H₁₁Br₂O₂ Glutaconic acid, α -bromo- γ , γ -di-hydroxy β methoxy, γ lactone, (3,4,5-tri-bromo-2,6-dimethoxyphenyl) ester, acetate(?) 1229^a
- Glutaconic acid α -bromo- γ -keto β methoxy, α -hydride with acetic acid, (3,4,5-tri-bromo-2,6-dimethoxyphenyl) ester(?) 1229^a
- C₁₅H₁₁ClNO₂ Quinolene 4-chloro-6-methoxy 2-phenyl, 4884^a
- C₁₅H₁₁ClNO₂ Phenol 4 (2-amino-1-naphthylazo)-3-chloro-, 4539^a
- C₁₅H₁₁ClN₂O₂ 4 Pyrazolol 1 (β -chlorophenyl) 5-methyl-, picate, 3342^a
- O β β β Quinaldine, 4-amino- α -3-dichloro-, and *HCl*, 2430^a
- C₁₅H₁₁Cl₂N₂O₂ Crotonic acid γ , γ -diamino- α , β -dichloro- γ hydroxy, γ lactone, 4225^a
- Isocrotonic acid, γ γ -diamino- α , β -dichloro- γ hydroxy-, γ -lactone, 4225^a
- Maleanilide, α , β -dichloro-, 4225^a
- Phthalimide 2 (4-acetamido-2,6-dichlorophenyl), 4273^a
- C₁₅H₁₁Cl₂O₂ Glutaconic acid, α chloro- γ γ -di-

- hydroxy β methoxy, γ -lactone, (3,4,5-trichloro-2 (6-dimethoxyphenyl) ester, acetate(?), 1229¹
- Glutazone acid α -chloro- γ -keto- β methoxy, anhydride with acetic acid (3,4,5-trichloro-2 (6-dimethoxyphenyl) ester(?), 1229¹
- C₁₂H₁₁FNO₅S Naphthalenesulfonamide, fluoro-, 4544¹ 4545¹
- C₁₂H₁₁F₂NO₅ Diphenyl 2,2'-difluoro-3,3',5,5'-tetramethyl 4,4',6,6'-tetranitro-, 2¹)¹
- C₁₂H₁₁INO Quinoline, 4-iodo-6-methoxy 2-phenyl 4584¹
- C₁₂H₁₁MoN₃S₄ 1404¹
- C₁₂H₁₁N₃ Naphthalene 2-phenylazo-, 5151¹
- C₁₂H₁₁N₃O 6(2) meso-Anthrapyrazolone, 2,3-di-methyl P 2838¹
- Naphthol phenylazo-, 5161¹, addn compdr 3322¹
- C₁₂H₁₁N₃O₂ Indigo white P 1039¹ P 5295¹
- Ketone 5-hydroxy 5-quinolyl phenyl, oxime, 106¹
- Phthalazone, 1 benzyl 6,7-methylenedioxy, 29¹
- Quinaldine, nitro-4-phenyl, 1039¹
- Quinolonecarboxamide, 1,4-dihydro-4-keto-2-phenyl, 1530¹
- 5-Quinolonecarboxamide, 3-hydroxy, and sulfate 272¹
- 8-Quinolol, 5 benzamide-, and acid sulfate 904¹
- C₁₂H₁₁N₃O₂ Isatide, 2733¹
- Δ^1 -Oxazoline 4 (5-epoxy-4-methyl 2 [(m and p) nitrophenyl] 5-phenyl, 2951¹
- Phthalimide N (p nitrophenethyl), 4240¹
- 2,3-Pyrrolidinedione, 1 (o-nitrophenyl) 3-phenyl 693¹
- C₁₂H₁₁N₃O₃ Naphthol orange, 3934¹
- 2 Naphthol 3-sulfonic acid, 1 phenylazo-, γ salt 2138¹
- C₁₂H₁₁N₃O₃ Malonamide acid, α -o-nitrobenzal-, 5671¹
- C₁₂H₁₁N₃ Compd, m 262¹, from compd m 205¹, 5428¹
- C₁₂H₁₁N₃O₃ 2 Anthraldehyde, 1 amino-9,10-di-hydro-9,10-diketo-, semicarbazone, 91¹
- C₁₂H₁₁N₃O₃ 1,3(2,4) Isoquinoline-dione, 4 (nitro-p-tolylazo) 3645¹
- Pyrazole, 1 (2,4-dinitrophenyl) -3 (or 5) methyl-5 (or 3) phenyl, 3320¹
- C₁₂H₁₁N₃O₃ 1,3 4 Oxadiazole, 2,2' hydrazobis(5-phenyl-, 468¹
- C₁₂H₁₁O Propiophenone, β -methyl β -phenyl, 2145¹
- C₁₂H₁₁O Anthraquinone dimethyl, 3618¹
- Δ^1 -L-Butenedione, 1 4-diphenyl-, 83¹
- β Butenoic acid, γ hydroxy- α γ -diphenyl lactone, 3324¹
- Crotonic acid γ hydroxy- α γ -diphenyl, lactone, 3324¹
- Cyclopropanecarboxylic acid 2 hydroxy 2 3 diphenyl, β lactone, 1809¹
- C₁₂H₁₁O₂ Coumarin, methoxyphenyl 2710¹
- Flavone, 7 hydroxy-3-methyl, 4231¹
- 1 Fluorenepropionic acid β keto-(?), 2097¹
- Herzianin 3-phenyl, 4041¹
- 1,4-o-Naphthopstone, 3 acetyl 2 methyl, 426¹
- Phenanthrene methoxymethylenedioxy-, 3653¹, 3653¹
- 1-methylcroton, 5-methyl-3-phenyl-, 4541¹
- C₁₂H₁₁O₂ Anthraquinone, dimethoxy, 1519¹, 2140¹
- 4 Chromanone, 3-(3,4-dihydroxybenzal-, 1534¹
- Chrysin, 3 methyl, 4200¹
- Daidzein, 2 methyl-, 3327¹
- Isoflavone, 7 hydroxy-4' methoxy, 5678¹
- 1,2 $\beta\beta$ -Naphthopyran-3-carboxylic acid, 2 keto-, Et ester, 2146¹
- Phenanthrenequinone, 2,3 dimethoxy 1243¹
- C₁₂H₁₁O₂S₂ 3-o Naphthothienophenol, 6-(carboxymethylmercapto), acetate, 3341¹
- C₁₂H₁₁O₂ Benzil, 4' methoxy-3 4-methylenedioxy, 4876¹
- 4 Chromanone, 3-(3,4-dihydroxybenzal) 7 hydroxy, 1534¹
- Isoflavone, 5,7 dihydroxy - 4' - methoxy, 5670¹
- Ketodibasic acid, m 301-5¹, from compd, m 26-7¹, 1223¹
- Phthalide, 4 hydroxy-3-methoxy, benzoate, 2150¹
- Wogonin, 132¹
- C₁₂H₁₁O₂ Benzoic acid, methoxycarboxylate-, P 2154¹
- 4 Chromanone, 3 (3 4-dihydroxybenzal) 7,8-dihydroxy, 1534¹
- Tectonigenin 3390¹
- C₁₂H₁₁Br₂N₃O₂ Phthalimidine, 2 (4 acetamido-2 bromophenyl), 4273¹
- C₁₂H₁₁Br₂O Anthrone, 10-bromodimethyl-, 2994¹, 3646¹, 4547¹
- C₁₂H₁₁Br₂O Chalcone, bromo-4' methoxy, 1819¹
- C₁₂H₁₁Br₂NO₂ β -Phenetidine, 2,5-dibromo-N piperonylidene-, 2587¹
- C₁₂H₁₁Br₂O₂ β -Teluguosone, 3,6-dibromo-5-(4-bromo-2-methyl), 5410¹
- C₁₂H₁₁CdMoN₃O₃S₂ 3057¹
- C₁₂H₁₁ClN₃ Quinaldine, 4 amino-3-chloro-, 2430¹
- C₁₂H₁₁ClN₃O 2 Quinolonecarbinol, 4-amino-3-chloro-, 2430¹
- C₁₂H₁₁ClN₃O₂ 1 Methyl 2 (m nitrophenyl)quinolinium chloride, 290¹
- C₁₂H₁₁ClN₃O₃ 4 Pyrazolol, 5-methyl 1 phenyl, β -chlorobenzenesulfonate, 3342¹
- C₁₂H₁₁ClO Methylflavylium chloride, and FeCl₃ deriv, 5413¹
- C₁₂H₁₁ClO₂ Methoxyflavylium chloride, 513¹ and FeCl₃ deriv, 5413¹
- C₁₂H₁₁ClO₂ + 2H₂O 3-Hydroxy-4' methoxy flavylium chloride, 513¹
- C₁₂H₁₁Cl₂FeO Methylflavylium chloride, FeCl₃ deriv, 5413¹
- C₁₂H₁₁Cl₂FeO₂ 3-Methoxyflavylium chloride FeCl₃ deriv, 5413¹
- C₁₂H₁₁N + Benzocarbazole 5 8-dihydro-, 2221¹
- 2 Naphthylamine, N phenyl, 1501¹, 6010¹
- C₁₂H₁₁NO Acrylonitrile, α β anisyl β phenyl, 691¹
- β Butenimide acid, γ hydroxy- α γ -diphenyl, lactone, 3325¹
- Crotonimide acid, γ hydroxy- α γ -diphenyl, lactone, 3325¹
- 2 Naphthol 6-amino-, P 5041¹
- Oxindole, 3 benzil 1 methyl, 293¹
- α -Tolunitrile, α phenacyl, 3324¹
- C₁₂H₁₁NO₂ Acrylonitrile, β hydroxymethyl- α -phenyl, 2710¹
- Δ^1 Oxazoline, 4 (5-epoxy-4 methyl 2,3-d phenyl, and -HCl, 290¹

- Pseudoisatin, 8-methyl 1 *p*-tolyl-, 294¹
 2 3-Pyrroloindione, 1,5-diphenyl, 699¹
 4(1) Quinolone, 6-methoxy 2 phenyl, 1830¹
 $C_{16}H_{14}N_2O_4$ Cinnamamide, 3,4 methylenedioxy, 5671¹
 Cinnamic acid, α benzamido-, 1508¹, 2143¹
 3¹-Oxazolone, 4,5-epoxy-4-methyl 5-phenyl-2 sulci-, 294¹
 8(7) Pyrroloindione, 5,6-dihydro-7 piperonylidene, 1521¹
 $C_{16}H_{14}NO_3$ 2 Naphthol 3-sulfonamide, 2138¹
 $C_{16}H_{14}NO_4$ Anthraquinone, 5-amino-1,4-dimethoxy, 3648¹
 Cinnamic acid α -benzamidohydroxy, 1508¹
 $C_{16}H_{14}NO_5$ 3 β -Naphthazolo-carboxylic acid, 2,3,4,9 tetrahydro 2,4,9 trisubstituted 1-methyl-, Et ester, 1824¹
 Oxime m 210¹, of ketodibasic acid m 304-5¹, 1232¹
 $C_{16}H_{14}NO_6$ Diacetate, m 183¹, of compd from isokimmianone, 208¹
 $C_{16}H_{14}N_2O_4$ (3) Quinoxaline, 3 ethyldiamino-2 phenyl, 4882¹
 $C_{16}H_{14}N_2O_5$ Cinchophen, 6-hydroxy-, hydrazide, 4883¹
 1 3(2,4) Isoquinolinedione, 4 - tolylazo, 3648¹
 $C_{16}H_{14}N_2O_6$ Phthalazine, 1 2-dihydro-4 methoxy 1 methylene 2-(*p* nitrophenyl), 4272¹, 4273¹
 $C_{16}H_{14}N_2O_7$ Glyoxime, amino-, di. Bz deriv, 81¹
 $C_{16}H_{14}N_2O_8$ 2 Thiazolealdehyde 4-phenyl phenylthiohydrazine 2722¹
 $C_{16}H_{14}N_2O_9$ 1 2 4 Oxadiazole, 3 benzoyl 5 phenyl, semicarbazone, 3623¹
 $C_{16}H_{14}N_2O_{10}$ Anthranic acid, N [3 methyl 1 (*p* - nitrophenyl) 5(4) 1,2,4 - triazolyldiene], 3651¹
 Pyrazolobenzotriazine, 4,5-dihydro-5-hydroxy 2 methyl 7 - nitro 4 phenyl, 5 oxide, 1240¹
 $C_{16}H_{14}N_2O_{11}$ 4-Pyrazolol, 5-methyl 1 phenyl, picrate, 3342¹
 $C_{16}H_{14}N_2O_{12}$ 2 3 Triazinemercaptan, 4-amino-6-benzyl, picrate, 2730¹
 2 3 Triazinemercaptan, 4 amino-6 tolyl, picrate, 1531¹
 $C_{16}H_{14}N_2O_{13}$ 2 3 Triazinemercaptan, 4-amino-6 *p*-amyl-, picrate, 1531¹
 $C_{16}H_{14}$ Anthracene, dimethyl-, 3310¹, 3646¹, 4547¹
 1,8 Butadiene, 1,4-diphenyl-, 1719¹
 Fluoranthene, tetrahydro-, 1244¹, 2967¹
 Hydrocarbon m 179-80¹, from reaction of (CICH CH)₂AsCl and AlCl₃ in C₆H₆, 1235¹
 Phenanthrene, 1,7-dimethyl, 1232¹, 2137¹
 Pymanthrene, 2136¹
 $C_{16}H_{14}AsNO_3$ 3,5-Xylenearsonic acid, 4 hydroxy α -phthalimido-, P 714¹
 $C_{16}H_{14}AsN_2O_4$ Benzenearsonic acid, *p*-(3 hydroxy 2 methyl-4-quinolyazo), 4937¹
 $C_{16}H_{14}As_2Cl_2N_2O_4$ Acetanilide, 3 3 arsenobis[5-chloro 6-hydroxy, P 559¹
 $C_{16}H_{14}As_2Cl_2N_2O_5$ Benzaldehyde, 4,4' arsenobis[2-chloro-3 hydroxy, bisthiosemicarbazone P 907¹
 $C_{16}H_{14}As_2N_2O_6$ Acetanilide, 3,3 -arsenobis[6-hydroxy 5-iodo-, P 382¹
 $C_{16}H_{14}BrNO_4$ Chalcone, bromo-4' methoxy, oxime, 1819¹
p Cinnamamide, β bromo-, 1819¹
 $C_{16}H_{14}Br_2NO_2$ *p* Toluquinone, 5-(4-amino 6-bromo-2 mentyl) 3 6-dibromo-, 5410¹
 $C_{16}H_{14}Br_2NO_4$ *p*-Toluhydroquinone, 3 6-dibromo 5 (4 bromo 6 nitro 2 - mentyl), 5410¹
 $C_{16}H_{14}ClNO_4$ Benzal, 4-chloro-4'-dimethylamino-, 4875¹
 $C_{16}H_{14}ClNO_5$ Acetanilide, α -chloro- α -hydroxy-, α toluate, 1819¹
 Diacetanilide, *o*-(*p*-chlorophenoxy), 2703¹
 α Toluamide, *o* hydroxy, chloroacetate, 1818¹
o-Toluic acid α (3-acetamido-4 chlorophenyl), P 5041¹
 $C_{16}H_{14}Cl_2N_2O$ Crotonamide, chloro(chloro-amino) 2128¹
 $C_{16}H_{14}Cl_2N_2O_2$ Ethane 1,1-dichloro-2,2 bis(5-nitro-*o*-amyl), 5412¹
 $C_{16}H_{14}Cl_2O_5S_2$ 3 4-Xylenesulfonic acid, 5-(chlorosulfonyl) 2 hydroxy, butol cyclic sulfonide, 691¹
 $C_{16}H_{14}F_2N_2O_4$ Biphenyl, 2 2 -difluoro-3 3',5,5' tetramethyl 6 6 -dimetro-, 2711¹
 $C_{16}H_{14}INO_5$ Diacetanilide, *o*-(*p* iodophenoxy), 2703¹
 $C_{16}H_{14}MgO_5$ *o*-Vanillin, Mg salt, 2131¹
 $C_{16}H_{14}N_2$ Dandole 5164¹
 Quaxaline amino-4 phenyl, 1530¹, HCl, 4625¹
 $C_{16}H_{14}N_2O$ α Benzocarbazole, 5,6,6a,11a tetrahydro-11 nitroso-, 5675¹
 Phthalazine, 1 benzyl 7 methoxy, 297¹
 2 Pyrroloindione 1 phenyl 5-(phenylamino)-, 3346¹
 Quinolone 4 amino-6-methoxy 2 phenyl, and HCl, 4584¹
 $C_{16}H_{14}NO_3$ 2 4(1 3) Quinoxalinedione, 2 thio-3 xylol, 3002¹
 $C_{16}H_{14}N_2O_5$ 5-Acridinecarbamate acid, Et ester, 4271¹
 Phthalimide, N (*p* aminophenethyl), HCl, 4241¹
 2,5-Piperazinedione, 3,6-diphenyl, 83¹
 2,3-Pyrroloindione, 1 amino-5-phenyl, 599¹
 $C_{16}H_{14}N_2O_6$ α Toluic acid, piperonyldenehydrazide 297¹
 $C_{16}H_{14}N_2O_7$ 4-Quinoxalinocarboxylic acid 1,2 3,4 - tetrahydro 4 hydroxy - 2 - thio-3 tolyl, 3323¹
 $C_{16}H_{14}N_2O_8$ Anthraquinone, 1,4-diamino-5 8-dimethoxy, 3648¹
 $C_{16}H_{14}N_2O_9$ Anthranic acid, N-acetyl 5-nitro-, benzyl ester, 4244¹
 $C_{16}H_{14}N_2O_{10}$ 1(2) 2' Benzenesulfonazole, 1' acetyl 1',2'-dihydro-, 928¹
 $C_{16}H_{14}N_2O_{11}$ 306¹
 $C_{16}H_{14}N_2O_{12}$ Benzenesulfonic acid, *o*-(4,5-dihydro - 6 keto - 3 methyl 4 - phenyl azo-1 pyrazolyl) 562¹
 $C_{16}H_{14}N_2O_4$ Crotonamide, nitro(nitroamido), 2128¹
 $C_{16}H_{14}N_2O_5$ Indole, dimethyl, picrate, 2731¹
 $C_{16}H_{14}N_2O_6$ Glycol, bis(*p* nitrocarbamate), 2686¹
 Tryptophol, picrate, 514¹
 $C_{16}H_{14}N_2O_7$ Pyrazolobenzotriazine, 4-amino-4,5-dihydro 5 - hydroxy - 2 - methyl 7 - nitro-, 5-oxide, 1240¹
 $C_{16}H_{14}N_2O_8$ *s* Triazine, 2,4-diamino-6-benzyl-, picrate, 959¹
s Triazine, 2 4-diamino-6-m (and *p*) tolyl-, picrate, 957¹, 958¹

- C₁₁H₁₆O Anthrone dimethyl 3646¹, 4546²
Dypnone, 3312³
3 Fluoranthanol, 1,2,3,10b tetrahydro, 5163⁴
- C₁₁H₁₆O₂ Acrylic acid diphenyl, Me ester, 2143¹
1,4 Butanedione, 1,4-diphenyl, 83¹
1 Iodacetic acid, 2-phenyl, 1517²
1,3 Propanedione, 2 methyl 1,3 diphenyl, 3642¹
—, 1 phenyl 3-*p*-tolyl- 1528²
p Told 4236²
- C₁₁H₁₆O₃ Anthrol, dimethoxy, 1519^{2,4}
Anthrone dimethoxy 1519², 1520¹
Benzoic acid, *o*-2,5-xylolyl 638¹, 2993²
1,3(2) Benzophenanthenedione 4 hydroxy 2 propyl, 2140¹
Benzophenone 3 acetyl 2 hydroxy 5 methyl 3634¹
— 2 hydroxy-5-methyl-, acetate, 3633¹
Butyric acid α -keto- β -*p*-diphenyl- 1806²
Cyclopropanecarboxylic acid 2 hydroxy 2,3-diphenyl 1806²
Lactaldehyde, β phenyl-, benzoate, 1820¹
2,4 Pentanedione, 3 [(3 hydroxy 2-naphthyl)methyl]-, 2146¹
Pyrocatechol 4 propenyl-, monobenzoate, 5156²
Pyruvic acid diphenyl, Me ester, 941²
 α -Toluic anhydride, 1806²
- C₁₁H₁₆O₃S Thioxanthone 1,2,2 dimethoxy 4 methyl, and di HCl, 2725¹
- C₁₁H₁₆O₄ Alkanin 5418²
9,10-Anthradol, 1,2-dimethoxy, 1520²
Anthraquinone, 1,2,3,4 tetrahydro-6 hydroxy, acetate, 3993²
9 Anthrone, 10 hydroxy 1,5-dimethoxy 1519²
Benzal, dimethoxy 1243², 4876¹
Benzyl alcohol, α methyl II phthalate 286²
p *p* Biphenyl diacetate, 4233²
Glycol dibenzoate, 3311²
- C₁₁H₁₆O₅ (See also Benzoin)
Benzoic acid *o*-veratryl-, 934¹
Benzoin, 4 methoxy 3,4 methylendioxy 4876¹
4 Chromanone, 3 (3,4 dihydroxybenzyl)-7-hydroxy, 1534¹
Isophthalic acid, 4-methoxy 6 methyl 2-phenyl, 3327¹
Phloropropiophenone benzoate 4250²
Phylloulcin 288², 3979², 5155²
Salicylic acid 6-(3-hydroxy-4 methoxy styryl), 5158²
- C₁₁H₁₆O₅S Thioxanthone, 1,2 dimethoxy 4 methyl, 10-dioxole, 2725¹
- C₁₁H₁₆O₆ (See also Benzoin)
Acetic acid, α,α' -(*p*-naphthalenedioxy)bis- 4253²
Benzoic acid, 4-ethoxy-3,4'-oxybis-, 960²
4-Chromanone, 3 (3,4-dihydroxybenzyl) 7,8-dihydroxy, 1534¹
Homoveratryl, 3393²
1,2,5-naphthalenetetracarboxylic acid, tri Me ester, 1237¹
- C₁₁H₁₆O₇Zn + 2H₂O *o*-Vanillin, Zn salt, 2131¹
- C₁₁H₁₆O₈ Chromone, 3-acetyl 7,8-dihydroxy 2 methyl-, diacetate, 5671²
Compd., m 127², from acetylation of phloracetophenone, 4250²
Compd., m 131², from acetylation of phloracetophenone, 4250²
- C₁₁H₁₆O₈S Benzoic acid, 3,3'-sulfonylbis(benzyloxy), 2126²
- C₁₁H₁₆As₂N₂O₂ Benzenearsonic acid, *p*-(5-hydroxy-3-methyl-1-phenyl-4-pyrazolylazo), 4937²
- C₁₁H₁₆BrN₂O₃ Benzothiazole, 3 bromo-5-methyl 1-*p*-phenetidin-, 1047²
- C₁₁H₁₆BrO₂ Butyropheneone, α bromo- β phenyl, 91¹
- C₁₁H₁₆BrO₃ *p*-Toluquinone, 5-(4-bromo-2-methyl)-3,6-dihydroxy, 5410²
- C₁₁H₁₆Br₂N₂O₂ 1 Phthalanacetacetic acid, 2 (4-amino 2,6-dibromophenyl) 1,2,3,4-tetrahydro-4 hydroxy, 4273¹
- C₁₁H₁₆Br₂O₂ *p*-Toluidroquinone, 3,6-dibromo-5-(4 bromo-2-methyl), 5410²
- C₁₁H₁₆ClO₂ Guaiacol, 4-(α -chloroethyl), benzoate, 4241¹
- C₁₁H₁₆ClO₃ Benzoin, 2'-chloro-3,4-dimethoxy-, 2992²
- C₁₁H₁₆Cl₂N₂O₂ 1 Phthalanacetacetic acid, 2-(4-amino-2,6-dichlorophenyl) 1,2,3,4-tetrahydro-4 hydroxy, 4273¹
- C₁₁H₁₆Cl₂O₂ $\Delta^1,4$ -Cyclohexadienone, 2-chloro-6-(2,6 dichloro-*p*-toloxyl)-6 ethoxy 4 methyl, 5663²
- C₁₁H₁₆N α Benzocarbazole, 5,6,6a,11a-tetrahydro-, 5674²
2-Fluoranthranamine tetrahydro-, 5163²
- C₁₁H₁₆NO Dypnone, oxime, 2132²
- C₁₁H₁₆NO₂ Thiochroman, 4-benzamido-, 5426¹
- C₁₁H₁₆NO₃ Anthrone, 3 amino 2-ethoxy, *P* 5041²
Benzal, *p*-dimethylamino-, 100²
Chalcone, 4' methoxy, oxime, 1819²
Cinnamamide, β methoxy, 5671²
p-Cinnamamide, 1819²
 Δ^1 -Cyclopentenacetoneitrile, methylpiperonyl-, 4234¹
 Δ^1 -Isotazolin, 3-*p*-anisyl-5-phenyl-, 1819²
 α -Toluanide, α -phenacyl-, 3323¹
- C₁₁H₁₆NO₃S Thiochroman, 4 benzamido-, 1 oxide, 5425¹
- C₁₁H₁₆NO₃ Acetamide, α -hydroxy, α -toluate, 1818²
Acetamide, *p*-anisyl-, acetate, 2712²
Benzoic acid, *p*-benzamido-, Et ester, 1811²
Butyric acid, γ -amino- α -keto-*p*-phenyl-, and salts, 609²
Isatic acid, 5-methyl *N* *p*-tolyl, Na salt, 294¹
Oxamic acid, *N*, *N*-di-*p*-tolyl-, 294¹
 α -Toluanide α' -hydroxy, acetate, 1818²
- C₁₁H₁₆NO₃S Thiochroman, 4 benzamido-, 1 dioxide, 5425¹
- C₁₁H₁₆NO₄ Carbanilic acid α -hydroxy, Me ester, α -toluate, 1818²
Styrene, 4 (benzoyloxy) 3 methoxy β nitro-, 5896²
- C₁₁H₁₆NO₅ *p*-Cresol, 2-ethoxy, *m*-nitrobenzoate 3977²
Ethanol, 2 amino 1,2 bis(3,4 methylene dioxyphenyl)-, and salts, 1240²
Guaiacol, 4 ethyl-5(?) nitro-, benzoate, 4867²
Salicylic acid, 5-amino-3 methoxy, benzoate, methyl ester, -HCl, 4084², Ba deriv, Me ester, 2810²
—, 3-methoxy-, *m*-aminobenzoate, methyl ester, -HCl, 4084², *m*-aminobenzoyl deriv, Me ester, 2810²
- C₁₁H₁₆NO₅Zn Guaiacol, 6-(*m*-isopropenyl), Zn salt with *o*-vanillin, 2131¹

- C₁₁H₁₁N₃: 1,2,5-Triazole, 3 methyl 1 phenyl-4-o-tolyl, 1828¹
- C₁₁H₁₁N₃O₃: Benzo-1,3,6 thiadiazepin 2(1)-one, 4 (3,4-dimethylamino), 4266¹
- C₁₁H₁₁N₃O₄: 4(3) Quinoxaline, 3 benzamido-1,2 dihydro-2 methyl, 4582¹
- C₁₁H₁₁N₃O₅: Acetophenone, 3,4 methylenedioxy α phenyl, semicarbazone, 4575¹
- C₁₁H₁₁N₃O₆: Benzoin, 3,4 methylenedioxy, semicarbazone, 4575¹
- C₁₁H₁₁N₃S: 1,4,3-Isotriadiazine, 2 amino 5 p tolyl, and -HCl, 1532¹
- 1,3,4 Triazole, 2-(ethylmercapto)-1,5 di phenyl-, 2119¹
- , 2 (methylmercapto) 5-phenyl-1-(and p) tolyl-, 2119¹ 2120¹
- C₁₁H₁₁N₃O₂: Isatin, 4 o tolunosemicarbazone 3634¹
- C₁₁H₁₁: Fluoranthene, 6b,7,8,9,10,10a hexahydro-, 1245¹
- C₁₁H₁₁As₂N₃O₃S: Benzaldehyde, 4,4' arsenobis-3 hydroxy-, buthiosemicarbazone, P 967¹
- C₁₁H₁₁As₂N₃BrCaO₅S: Compd., begins to decomp 130°, from reaction of sulfonation product of diphenethylgold bromide and CaCO₃ 4230¹
- C₁₁H₁₁BrNO₃S m - Benzenesulfonotoluene 5 bromo 6 hydroxy, ethylcarbonate, 5408¹
- Carbamlic acid 3 bromo 2 hydroxy 5 methyl Et ester, benzenesulfonate 5408¹
- C₁₁H₁₁Br₂O₃S: Veratrole, 4,4 dithiobis[5 bromo- 2724¹
- C₁₁H₁₁Br₂NO₃S: Toluhydroquinone 5-(4 amino-6 bromo 2 methyl) 3,6 dibromo-, 5410¹
- C₁₁H₁₁ClN: Aniline p -(p -chlorostyryl) N, V-di methyl 4875¹
- C₁₁H₁₁ClNO: Acetophenone, p -chloro- α (p -di methylaminophenyl), 4575¹
- Acetophenone, α -(chlorophenyl) p -dimethyl amino-, 2713¹, 4875¹
- 1,3,2 Benzoxazine, 2 methyl 4 phenyl methochloride, $FeCl_3$ deriv., 1250¹
- C₁₁H₁₁ClNO₂: Benzoin, chlorodimethylamino-, 2992¹ 4875¹
- C₁₁H₁₁ClNO₃: Acetophenone, α -(p -chlorophenyl) 3,4-dimethoxy, oxime 2713¹
- α -Toluanilide, 2 chloro 3' 4' dimethoxy 2713¹
- C₁₁H₁₁ClNO₄: Benzoin, 2'-chloro-3,4-dimethoxy oxime, 2992¹
- C₁₁H₁₁Cl₂FeNO: 1,3,2 Benzoxazine 2 methyl 4 phenyl-, methochloride, $FeCl_3$ deriv 1250¹
- C₁₁H₁₁N₂: 1,2 Diazetene 1,3 di p tolyl, 4879¹
- Δ^1 -1,2 Diazetene, 1- o -tolyl-3 p tolyl, 4879¹
- C₁₁H₁₁N₂IO₃: Phenol, o -(α -tomoethyl), Ni salt, 2131¹
- C₁₁H₁₁N₂IO₄: Guaiacol, 6 (isomomethyl), Ni salt, 2131¹
- C₁₁H₁₁N₂O: Acetanilide, p [(benzylamino) methyl], 4243¹
- 5-Iudanol, 6- p -tolylazo-, 694¹
- C₁₁H₁₁N₂O₃: Benzothiazole, 5-methyl 1 p phenetidine-, 104¹
- 2(1) Quinoxaline, 4 ethoxy 3,4 dihydro 3 phenyl 2 thio-, 3323¹
- C₁₁H₁₁N₂O₄: Acetophenone, oxime methylcarbamate, 1506¹
- Acetophenone, p methyl, oxime, carbamate, 1506¹
- Hydrazine s - d - α -tolyl-, 1821¹
- Oxanilide, N -ethyl-, 294¹
- Succinamide, 1504¹
- α -Toluic acid anisalhydrazide, 297¹
- , o (and m) methoxybenzalhydrazide 297¹
- C₁₁H₁₁N₂O₅: Acetic acid, [β (p hydroxyphenyl)- α phenylhydrazide], 1227¹
- Benzoic acid 2 acetamido 5 amino benzyl ester -HCl, 4245¹
- p Cresol, 2 phenylazo- ethylcarbonate 5151¹
- C₁₁H₁₁N₂O₆: Biphenyl 2,2,4,4 tetramethoxy 5,5-dinitro-, 4252¹
- C₁₁H₁₁N₂O₇: Acetanilide, 2,3,5,6-tetrahydroxy 4 nitro-, tetraacetate, 2129¹
- C₁₁H₁₁N₂S₂: Carbamic anhydride N,N -di methyl N,N diphenyltrithio-, P 4599¹
- C₁₁H₁₁N₂: 4,4' Bipyridine compd with phenylenediamine 5428¹
- Compd., m 166°, from compd m 208° 5428¹
- C₁₁H₁₁N₂O₂: Cumaldehyde 2,4 dinitrophenyl hydrazone 3320¹
- β Isodurylaldehyde 3,5-dinitro- phenyl hydrazone 4247¹
- Theobromine 1 (β hydroxyethyl), benzoate 1031¹
- C₁₁H₁₁N₂O₃: Indanol methylamino- picate, 2139¹
- C₁₁H₁₁N₂S: Δ^1 -1,3,4-Thiadiazobenzene 2 amino-4-ethyl 5-phenylamino-, and -HCl 4862¹
- C₁₁H₁₁N₂: Compd m 208°, from $BaCl_2$ Br and NH_4 H_2 O 5428¹
- C₁₁H₁₁N₂O: Quinone 5-(2,6 diamino-3 pyridyl azo) 3 ethoxy, P 4592¹
- C₁₁H₁₁O₂: Anisole o o vinyldebenis, 4239¹
- Butyric acid diphenyl 3329¹ 4240¹
- Propiophenone β methoxy α phenyl 1814¹
- o -Toluic acid, xylol, 2995¹, 3648¹
- p Toluquinone, 5 (2 methyl), 5410¹
- C₁₁H₁₁O₃: Acetic acid methoxydiphenyl-, Me ester 942¹
- Butyric acid, β hydroxy α β diphenyl, 2987¹
- Ethylene oxide, α β -di p anisyl, 1240¹
- Guaiacol, 4-ethyl benzoate 4867¹
- C₁₁H₁₁O₄: Acetophenone, α p -anisyl 2 hydroxy 4 methoxy, 3327¹
- Anisyl alcohol 3 hydroxy- α methyl- benzoate 4241¹
- Benzoin 2',4-dimethoxy 4876¹
- Glyceric acid β , β -diphenyl-, Me ester, 941¹
- 1,4 Naphthalenediol 2,5-dimethyl, diacetate 685¹
- C₁₁H₁₁O₃S: Acetic acid, α , α (1,5-naphthylene dithio)bis- di Me ester, 3341¹
- C₁₁H₁₁O₄: Acetophenone, α - p -anisyl 2,4-dihydroxy-6-methoxy, 5875¹
- Asarone acid Pb ester, 1557¹
- Glycolic acid di- p -anisyl-, 2143¹
- C₁₁H₁₁O₅: Chromone, 3-ethyl 5,7-dihydroxy 2 methyl, diacetate 4250¹
- Coumarin, 3-ethyl-5,7-dihydroxy 4 methyl, diacetate, 4250¹
- C₁₁H₁₁O₆S: 3,5-Xylenesulfonic acid, 2 hydroxy, hemol cyclic sulfonyl-, 284¹, 691¹
- C₁₁H₁₁As₂N₃O₃: Arsanilic acid, N (p phenylcarbamylpropionyl), 2703¹
- C₁₁H₁₁As₂N₃O₄: Succinimidoarsinic acid, 4863¹

- C₁₂H₁₁BrO₂S₂ Acenaphthenedisulfonic acid, bromo-, di Et ester, 1515⁹
- C₁₂H₁₁ClN₂O Acetophenone, *p*-chloro- α (β -dimethylaminophenyl) oxime, 4875⁹
- Acetophenone, α (chlorophenyl) β -dimethylamino-, oxime, 2713⁹, 4875⁹
- α -Toluenesulfide, α -chloro- β -dimethylamino-, 2713⁹
- C₁₂H₁₁ClN₂O₂ Benzoin 2'-chloro-4-dimethylamino-, oxime, 2992⁴
- C₁₂H₁₁N Benzylamine, *N*-isopropenyl *N*-phenyl-, and *HCl*, 282³
- p*-Fluorylaniline, *N* propyl, 511¹
- Naphthazole, dihydrodimethylmethylenic-, P 826³
- C₁₂H₁₁NO Acetophenone, α -benzylmethylamino-, 91¹
- Acetophenone, β -dimethylamino- α -phenyl 100⁴
- , α -(β -dimethylaminophenyl) 100⁴
- C₁₂H₁₁NO₂ Benzoin dimethylamino-, 512¹
- 2992⁴
- C₁₂H₁₁NO₂S β -Toluenesulfonamide V alkyl 90¹
- C₁₂H₁₁NO₂ Acetamide, 3-(benzyloxy)-4-methoxy 420¹
- Benzyl alcohol, β (methoxymethyl), carbamate, 4540¹
- Glutamic acid β methyl *N* naphthyl-, 3625⁹, 3626¹
- C₁₂H₁₁NO₂ Amisanilide 3,5-dimethoxy-, 1810⁹
- Asafetamide 5154⁴
- Benzoin, 2,4-dimethoxy oxime 4878¹
- Pyrocatechol, 4 (β paperonylaminomethyl) salts, 3633⁹
- C₁₂H₁₁NO₂ Acetophenone α β anisyl 2-dihydroxy-6-methoxy oxime 5673¹
- C₁₂H₁₁NO₂S β -Acetosulfide 3 hydroxy β -toluenesulfonate 420¹
- C₁₂H₁₁N₂ Methano[4,5-indeno] 6-*a*] 1,2,3-triazole 1,3a,4,4a,5,5a,6,8a-octahydro-1-phenyl 1805⁹
- C₁₂H₁₁N₂O Benzaldehyde 4-benzyl 2-methyl semicarbazone 2701¹
- 1,2-Propanedione 1- α -tolyl 2-oxime, 1-phenylhydrazine 182³
- C₁₂H₁₁N₂O₂ Acetophenone α (α -anisyl) semicarbazone 4875⁹
- β -Isodurylaldehyde 3-nitro phenylhydrazine, 4247¹
- C₁₂H₁₁N₂O₂ Benzoin methoxy semicarbazone 4875⁹
- C₁₂H₁₁N₂O₂ 2,5-Pyrroledicarboxylic acid 3-formyl-4-methyl, Et ester phenylhydrazine, 952³
- C₁₂H₁₁N₂O₂ Phenethylamine, V (2,4-dimethoxyphenyl)-3,4-dimethoxy 5405⁹
- C₁₂H₁₁N₂O₂ Prehnate, parate 1815⁹
- C₁₂H₁₁N₂S Acetophenone thio-4 β -tolylsemicarbazone, 1225⁴
- Benzaldehyde, 2-ethyl-4-phenyl-3-thiosemicarbazone, 4552⁴
- Carbamlic acid, α (and β) methylthio- Me ester, anne with EtH, and salts, 2119¹
- , thiol, Et ester, anne with EtH, and salts, 2119¹
- 1-Pyrroledinecarboxanilide, 2 (3-pyridyl) thio-, 300¹
- C₁₂H₁₁N₂ Pyrazole 6-anilino-1 (2,4-diaminophenyl)-3-methyl, and *di-HCl*, 1246¹
- C₁₂H₁₁N₂O₂ Theobromine, 1 (β hydroxyethyl), carbamate, 1031¹
- C₁₂H₁₁ Dibenzyl, α , α -dimethyl-, 3125⁹
- Butane, 1,4-diphenyl, 944³, 4043⁹
- C₁₂H₁₁AN₂O₂S Phenylthioarsanous acid, 2-sulfonamino-, bis(carbamylmethyl) ester, 93¹
- C₁₂H₁₁AsN₂O₂ Arsanilic acid, *N*, *N'* succinyl bis- and *di-Na salt*, 2700¹
- C₁₂H₁₁AsN₂O₂S Anthranilaldehyde, 4,4'-*az* senobis[3 hydroxy-, bis(hydrosemicarbazone), P 98⁴
- C₁₂H₁₁AuBr Diphenethylgold bromide, 4220⁹
- C₁₂H₁₁(BrNO₂S Benzenesulfonamide, *N* (β bromo α methylphenethyl) - *N* methyl-, 688¹
- C₁₂H₁₁Br₂O₂Te Di β -phenetyl tellurium di bromide, 1705³
- C₁₂H₁₁Br₂S₂ Ethane, *s* bis(benzylmercapto)-, tetrabromide, 5393³
- C₁₂H₁₁ClFIN (β -Chlorobenzyl)(β -fluorobenzyl) dimethylammonium iodide, 925⁹
- C₁₂H₁₁ClH₂N₂NaO₂ See *Veratrol*
- C₁₂H₁₁ClNO Ethanol, 2 (β chlorophenyl) 1 (β -dimethylaminophenyl)-, 4875⁹
- C₁₂H₁₁ClNO₂ Hydrobenzoin, 4-chloro-4-dimethylamino- 4875⁹
- C₁₂H₁₁ClN₂O₂S Methylene blue, perchlorate, 1513³
- C₁₂H₁₁ClN₂S See *Methylene blue*
- C₁₂H₁₁ClO₂Te Di β phenetyl tellurium dichloride, 1705³
- C₁₂H₁₁FN Dibenzylamine, β fluoro-*N*, β' -dimethyl and *HCl*, 925⁹
- C₁₂H₁₁F₂IN (α -Fluorobenzyl)(β fluorobenzyl) dimethylammonium iodide 925⁹
- C₁₂H₁₁F₂N₂ 6,6-Bis 2,4-xyldiae, 5,5-di fluoro-, 2711¹
- C₁₂H₁₁INO Camphor 3-[(β odophenyl)amino], 4201¹
- C₁₂H₁₁IN₂ 1 Methylquinoxalinum iodide, compd with α -phenylenediamine, 3425⁹
- C₁₂H₁₁I₂O₂Te Di β phenetyl tellurium diiodide, 1705³
- C₁₂H₁₁N₂ β -Toluidine, α -(benzylamino) *N*, *N*-di methyl-, 4243¹
- β -Toluidine, *N*, *N*-dimethyl- α -benzylamino-, 4243¹
- C₁₂H₁₁N₂O Acetophenone, β -dimethylamino- α -phenyl-, oxime, 100⁴, 2714¹
- Acetophenone α -(β -dimethylaminophenyl) oxime, 100⁴
- α -Toluenesulfide, β' -dimethylamino-, 2714¹
- C₁₂H₁₁N₂O₂S Carbanilide, β -ethoxy β methyl thio-, 104¹
- C₁₂H₁₁N₂O₂ Acetic acid (α β phenetyl β phenyl hydrazide), 1227⁴
- Benzoin 4-dimethylamino-, oxime, 2992⁴
- Carbanilide β -hydroxy- α -isopropyl-, and *HCl*, 2984¹
- 3-Pyrroledialdehyde, 5-(4-acetyl 3,5-dimethyl 2 isopropylidenemethyl) 2,4-di methyl-, 9623¹
- α Toluic acid β methoxybenzylhydrazide, 297¹
- Urea α -(β -methoxyphenethyl) β phenyl-, 5405⁹
- C₁₂H₁₁N₂O₂ β -Cresol 2 phenylhydrazino-, ethyl carbonate 5151¹
- Phthalimide, γ (α -aminophenyl)benzohydro-, Ac deriv., 701¹
- Salicylaldehyde, 4-ethoxy-3-methoxy phenylhydrazine, 770³
- C₁₂H₁₁N₂O₂S β -Acetotoluide, 2- β -tolylsulfon amide-, 699¹
- C₁₂H₁₁N₂O₂ 3-Pyrroledisopropionic acid, 5-carboxy 2

- (3,5 dimethyl - 2 isopyrrolidene-methyl) 4 methyl, *HB* 111⁴
- C₁₆H₁₉N₃O₄ 4 Isopyrrolepropionic acid 2 (3 carboxy - 5 - hydroxy 4 methyl 2 pyrrolimethylene)-3,5-dimethyl 4010¹
- C₁₆H₁₉N₂O₂ Bacetyl, phenylloxazone 1488⁴
- C₁₆H₁₉N₂O₂ 2,4 Pentanedione, (3,5-dimethyl 1 phenyl 4 pyrazolylazo), 1,23⁴
- Succinic acid, bis(β phenylhydrazide), 1504⁴
- C₁₆H₁₉N₂O₂ Pyridazole, 4,5-di-pyridazine 1 4(2,3) dione, 2,3,6,7 tetraacetyl 6,7-dihydro-5,8-dimethyl, 1826⁴
- C₁₆H₁₉N₂O₂ Benzylamine V ethyl p-methyl picrate 925⁴
- Benzylamine, N, N - trimethyl, picrate, 91³
- Isoauridine, picrate, 4533³
- Mecidine N methyl, picrate 4533³
- C₁₆H₁₉N₂O₂ Benzylamine p methoxy N N-di methyl, picrate, 91³
- C₁₆H₁₉N₂O₂ Ethyldimethyl(phenylsulfonyl) ammonium picrate, 6150⁴
- C₁₆H₁₉N₂O₂ Benzylamine, trimethoxy, picrate 1226^{1,4}
- C₁₆H₁₉O 2,6-Xyleneol 4-ethyl-α¹-phenyl 930¹
- C₁₆H₁₉O₂ p p' Bisanisole 2,2 - dimethyl and compd with HNO₃, 4572⁴
- Caprophene β 2 furyl, 5424⁴
- Cyclohexanol, 1-ethenyl-4 methyl, benzoate, 4557⁴
- Ethanol 2 ethoxy 1 2-diphenyl 200¹
- p-Tolubhydroquinone, 5-(2 methyl), 5410⁴
- Valerophenone, β 2 furyl-α methyl, 5424⁴
- C₁₆H₁₉O₂S Anisole, 4,4 thalobis[2 methyl, 2127²
- Sulfone, bis(α methylbenzyl) (?), 942⁴
- C₁₆H₁₉O₂S Anisole, 4,4 dithiobis[2 methyl 2127²
- C₁₆H₁₉O₂Te Phenetole p p telluobis 1755¹
- C₁₆H₁₉O₂ Anisole, p, p' (methoxymethylene)bis, 942⁴
- Benzoalcohol, o o' dimethoxy α methyl, 4230¹
- C₁₆H₁₉O₂S Anisole, 4,4 sulfonylbis[2 methyl, 2127²
- C₁₆H₁₉O₂Te Bis-p phenetyl telluoride, 1700¹
- C₁₆H₁₉O₂ Cyclohexanecarboxylic acid 2 4-di keto-3 methyl 6 phenyl Et ester 687⁴
- Guasacol, 4,4-ethyldienbis, P 4285⁴
- Umbelliferone, 3 isobutyl 4 methyl, acetate, 4869⁴
- C₁₆H₁₉O₂S Anisole, 4,4 sulfonylbis[2 methyl 2126⁴
- C₁₆H₁₉O₂S Anisole, 4,4 disulfonylbis[2 methyl, 2127²
- Veratrole, 4,4 - dithiobis, 2724⁴
- C₁₆H₁₉O₄ Glucoside, β 2-naphthyl-, 1232²
- Succinic acid, α (α hydroxy-4 methoxy 2 5-dimethylphenacyl) β methyl, γ-lactone 1833⁴
- C₁₆H₁₉O₂S Anisole, 4,4 -disulfonylbis[2 methyl, 2127²
- C₁₆H₁₉O₂ Escubo, Me ether, 3650⁴
- C₁₆H₁₉O₂ + 2H₂O Esculin, 7-O methyl, 707⁴, 4201¹
- C₁₆H₁₉S Butane, 1,4 bis(phenylmercapto), 285⁴
- Disulfide, bis(α methylbenzyl), 942⁴
- C₁₆H₁₉S Sulfide, bis(β phenylmercaptoethyl), 5661⁴
- C₁₆H₁₉BrN₂O₂ 4-Isopyrrolecarboxylic acid, 2 (3 bromo 4,5 dimethyl - 2 - pyrrolimethylene) 3,5 dimethyl, Et ester, *HB*Br, 4280⁴
- C₁₆H₁₉BrN₂O₂ Neoxanthobalarubic acid bromo 1837⁴
- C₁₆H₁₉BrN₂O₂ Camphoranilic acid 4 bromo 2 nitro- 2711⁴
- C₁₆H₁₉ClN₂O₂ Cinchonine acid 2-chloro diethylaminoethyl ester, P 712¹
- C₁₆H₁₉ClN₂O₂ Camphoranilic acid, 4'-chloro-2 nitro- 2711⁴
- C₁₆H₁₉ClO₄ Glucose 1,2,3,6-tetraacetyl 4 tri chloroacetyl 686⁴
- C₁₆H₁₉FIN Benzyl(fluorobenzyl)dimethylammonium iodide 925⁴
- C₁₆H₁₉HgI₂S Dibenzylethylsulfonium mercury triiodide 689⁴
- C₁₆H₁₉N Aniline, V N-dimethyl p-phenethyl 100¹
- Diphenethylamine, 1810¹, 2194¹ salts 3633³
- C₁₆H₁₉NO Benzyl alcohol, α-(α benzylaminoethyl), P 4556⁴
- Camphor 3-phenylamino- 4251⁴
- Ethanol 2 (p dimethylaminophenyl) 1 phenyl 100¹
- C₁₆H₁₉NO₂ 1 1 Cyclopentanediacetamide 3 methyl N phenyl 4234¹
- Diphenylamine p p diethoxy 503³
- Hydrobenzoin p-dimethylamino-, 100¹
- C₁₆H₁₉NO₂S p-Toluenesulfonamide N (γ phenyl propyl) 2709⁴
- p-Toluenesulfonamide, 2,4,6-trimethyl- 4533³
- C₁₆H₁₉NO₂ Benzyl alcohol α (benzylmethyl ammoniathy) ar, ar' dihydroxy P 4284¹
- Ethanol 2 amino 1,2 di-p-anisyl, and salts 1240⁴
- C₁₆H₁₉NO₂S Ephedrine, N phenylsulfonyl, 689⁴
- Pseudoephedrine, N phenylsulfonyl 688⁴
- C₁₆H₁₉NO₂ Pyrocatechol, β, β isomers[4-ethyl salts, 3633³
- C₁₆H₁₉NO₂ Malonic acid, {2(and 6) nitroveratryl} di Et ester, 293⁴
- C₁₆H₁₉N₂ 3 Pyrrolenitrile, 5 (4 ethyl 3,5 dimethyl 2 isopyrrolidenemethyl) 2,4 dimethyl, *HB*Br, 698⁴
- C₁₆H₁₉N₂O₂ 3 Pyrrolecarboxylic acid, 5-acetyl 2 methyl, Et ester, phenylhydrazone, 3008⁴
- C₁₆H₁₉N₂O₂S Benzenesulfonamide p formyl N,N-dimethyl methylphenylhydrazone 928⁴ p-tolylhydrazone, 928⁴
- C₁₆H₁₉N₂O₂ Ethyldimethylphenylammonium 2,4-dinitrophenoxide, 4242¹
- C₁₆H₁₉N₂S Leucomethylene blue, 3365³
- C₁₆H₁₉N₂O₂ Burea, 6 amino-2 thio-1 (3,4-sylyl) 3634¹
- Burea, 2 thio-6-o-tolueno-1 tolyl, 3634¹
- C₁₆H₁₉N₂O₂ Carnosine phenylcarbamyl, 5180⁴
- C₁₆H₁₉N₂O₂ 1 Butanol, 4 methylamino-1 (3 pyridyl), picrate, 3003⁴
- C₁₆H₁₉ Fluoranthene, 1 2 3,6b,7,8,9,10,10a 10b-decahydro-, 1245¹
- C₁₆H₁₉AuN₂O₂ Ammonium succinimidoaurate 4863³
- C₁₆H₁₉F₂N₂ [4,4' Bi-m-phenylenediamine], 5 5 dihydro-2,2,6,6 tetramethyl, 2711⁴
- C₁₆H₁₉HgO₂ Phenol, cyclohexyl, bis(acetoxy mercuri) deriv, 4254⁴
- C₁₆H₁₉IN Benzylethylmethylphenylammonium iodide, 1502⁴

- Dibenzylidimethylammonium iodide, 252¹
 C₁₂H₁₈INO Camphor, 3 iodocamphor, 4251¹
 C₁₂H₁₈N₂ α , γ -Octatrienaldehyde azone, 683¹
 C₁₂H₁₈N₂O Ketone, anilinoethyl 4-ethyl-3-5-dimethyl-2-pyrryl, 3009¹
 3 Pyrrylaldehyde 5-(4-ethyl-3-5-dimethyl-2-isopyrrylidenemethyl) 2,4-diethyl HBr, 962³
 C₁₂H₁₈N₂O Benzylamine *p*-dimethylammonobenzoate, 4243¹
 Cyclohexanecarboxylic acid 2 (2-benzamidoethyl) 701¹
 4 Isopyrrylcarboxylic acid 2 (4-5-dimethyl-2-pyrrylmethylene) 3-5-diethyl, Et ester HBr 4280¹
 C₁₂H₁₈N₂O₃ Amine γ N (sulfonyl-diethylamino)base, 662¹
 C₁₂H₁₈N₂O₄ Benzyl(ethyl(methyl)phenylammonium nitrate 1502¹
 Crotonic acid 2 β -diethylaminoethoxy HCl, 524¹
 Neosanthobolurubic acid 1836¹
 Ithahamide γ (β -hydroxy- γ -1-piperidyl propyl), P 1336¹
 C₁₂H₁₈N₂O₄ Apocunidine carboxy 703¹ 706¹
 C₁₂H₁₈N₂O₄ Camphor, 2-4-dinitrophenylhydrazones, 3320¹
 Fenchone 2,4-dinitrophenylhydrazones 3320¹
 Pulegone 2,4-dinitrophenylhydrazones 3320¹
 C₁₂H₁₈N₂O₄ Lithos[4-b]pyridazine-8-carboxylic acid, 1,2,3a,4a,6 γ -a-8a-octahydro-3-5-dimethyl-3,5, γ -a-trimino- 1831¹
 C₁₂H₁₈N₂O₄ β -Glucose 3-pyridylsazone 3345¹
 C₁₂H₁₈O₄ Cyclopentanone benzalacetyl methyl 408¹
 C₁₂H₁₈O₄ 1,3-Indandione 2-hexyl-4-hydroxy-methyl 2718¹
 C₁₂H₁₈O₄ Malonic acid (β -methylstyryl) di-Et ester 1803¹
 C₁₂H₁₈O₄ Malonic acid, (α -ethoxybenzyl), di-Et ester 2976¹
 C₁₂H₁₈O₄ Phthalic acid Bu- β -hydroxyethyl ester acetate P 610¹
 C₁₂H₁₈O₄ Acetoacetic acid α -(2-4-5-trimethoxybenzoyl) Et ester, 5154¹
 C₁₂H₁₈O₄ Ferulic acid β -D-glucoside- 513¹
 C₁₂H₁₈Sc Scaneane diethylphenyl 4863¹
 C₁₂H₁₈BrN₂O₄ Lysine N⁶-benzoyl γ (α -bromopropionyl) 2974¹
 C₁₂H₁₈BrN₂O₄ γ -Dibromopropyl(trimethylammonium coumarin-3-carboxylate 2514¹
 C₁₂H₁₈ClN₂O₄ Lupanine chloro, picrate 3347¹
 C₁₂H₁₈IN₂ Benzylphenylpropylazanium iodide 2962¹
 C₁₂H₁₈MoN₂O₄ + H₂O 348¹
 C₁₂H₁₈N₂ Cyclohexylamine γ (β -methylsulfonamyl) 1810¹
 C₁₂H₁₈NO Camphor 3-amino 4251¹
 Δ^1 -Cyclohexanecarboxy-*p*-toluide methyl, 280¹
 Δ^1 -Cyclohexanecarboxy-*p*-toluide, methyl, 280¹
 C₁₂H₁₈N₂O₄ (See also *Hemaphysalis*)
 Cyclopentanecarboxylic acid, 3-methyl-1-(phenylcarbamylmethyl), 4234¹
 C₁₂H₁₈NO₃ Benzyl(trimethylammonium benzene sulfonate, 5150¹
 α -Camphorsulfonamide, 3322¹
 C₁₂H₁₈NO₃ Benzenesulfonic acid, β -methoxy, Me ester, compd with PhNMe₂, 3322¹
 C₁₂H₁₈NO 5-Me-Dioxanecarbalol, 5-methoxy-methyl 2,2-dimethyl, *p*-nitrobenzoate, 1801¹
 C₁₂H₁₈NO₃ Glucosaminic, pentaacetate, 1220¹
 Mannosaminic, pentaacetate, 1220¹
 C₁₂H₁₈NO₃ 1,4-3-Isobutylidiazine, 2-isobutylamino-5-*p*-tolyl, Ac deriv, 1532¹
 C₁₂H₁₈N₂O₄ Ether, 3-*p*-menthyl picryl, 5672¹
 C₁₂H₁₈ClNO₃ Glucosamine, N (α -chloroacetyl) tetraacetyl, 3965¹
 C₁₂H₁₈CuO₄ Acetoacetic acid, α (α -hydroxyethylidene), Cu deriv, Et ester, 2976¹
 C₁₂H₁₈N₂O Ketone, 3,5-dimethyl-2-pyrryl 4-ethyl 3-5-dimethyl-2-pyrrylmethyl, 3009¹
 Ketone, 3-5-dimethyl-2-pyrrylmethyl 4-ethyl 3- α -dimethyl-2-pyrryl 3009¹
 2 Pyrrylol, 4-ethyl 5-(4-ethyl-3-5-dimethyl-2-isopyrrylidenemethyl) 3-methyl, 2433¹
 C₁₂H₁₈N₂O₄ Alantolactone, compd with CH₂N₂ 4008¹
 Cyclooctanone 2-methyl-, oxime, carbamate, 3972¹
 C₁₂H₁₈N₂O₄ Apocunidine carboxy, and per chlorate, 708¹ and salts, 4002¹
 Neobulurubic acid, 1836¹
 C₁₂H₁₈N₂O₄ Aldehyde from carboxyapocunidine, and salts, 706¹, 707¹
 Ether 2,4-dinitrophenyl-3-*p*-menthyl, 5672¹
 C₁₂H₁₈N₂O₄ Apocunidine acid, carboxy, and salts 706¹, 707¹
 C₁₂H₁₈N₂O₄ Butenedisulfonic acid, 2,3-dimethyl-, pyridine salt, 1218¹
 C₁₂H₁₈N₂O₄ Glucosamine N-benzoylallyl, 1803¹
 C₁₂H₁₈O₄ Glyoxylic acid, phenyl, β -octyl ester, 5397¹
 C₁₂H₁₈O₄ Adipic acid β -phenyl, di-Et ester, 5161¹
 Glutamic acid, α -(α -dimethylbenzyl) β - β -dimethyl 4240¹
 4-Heptanol 2-methyl acid phthalate, 4843¹
 Malonic acid 2-4-dimethylbenzyl, di-Et ester, 5154¹
 γ , (β -methylphenethyl), di-Et ester 5154¹
 Phthalic acid, di-Bu ester 3182¹, 3620¹
 disubstituted ester, P 1540¹
 C₁₂H₁₈O₄ Pelargonic acid β (2,4-dihydroxybenzoyl) P 2737¹
 C₁₂H₁₈O₄ Fructose pentaacetate 4232¹
 Galactose, pentaacetate 3630¹
 Mannose, pentaacetate 1803¹
 C₁₂H₁₈O₄ Dipentaerythritol hexaformate, 1486¹
 C₁₂H₁₈NO Cyclopropanecarboxamide, 2-hexyl, 518¹
 2 Naphthol, 1,2,3,4-tetrahydro-2 (1-piperidylmethyl), and salts 3643¹
 Piperidine, 1 (1,2,3,4-tetrahydro-1-methoxy-2-naphthyl) and HCl 2139¹
 C₁₂H₁₈NO₃ Cyclohexanol 4-isopropyl, carbamate, 4532¹
 Picolinic acid, methyl ester, 4549¹
 1-Piperidinecarboxylic acid 2-benzyl, Et ester, 5429¹
 1-Piperidinepropanol, 2 (and 3) methyl, benzoate, HCl, P 1037¹
 1-Pyrrylidimethyl, α -ethyl- α -methyl, benzoate, 1826¹
 C₁₂H₁₈NO₃ Nicotinic acid, 5-acetyl 1,6-dihydro-4-isobutyl-6-keto-1,2-dimethyl-, Et ester 292¹

- C₁₆H₂₃NO₃ Camphorsulfonic acid, PhNH₂ salt 3322³
- C₁₆H₂₃NO₃ 3-Pyrrolicacrylic acid 5-carboxy- α -ethoxy 2,4-dimethyl, di Et ester, 1520³
- C₁₆H₂₃NO₃ Benzenesulfonic acid, *o*(w and *p*) nitro-, menthyl ester, 4540³, 4550³
- C₁₆H₂₃NO₄ Glucosamine, β pentaacetyl, 3968³
- C₁₆H₂₃NO₄ Glucose, oxime pentaacetate 1220³
- C₁₆H₂₃NO Camphoramide, α benzyl, semicarbazone, 4247³
- C₁₆H₂₃N₂O, Etheno[4,8]pyridazine, 1,2,3a,4a,6,7,7a,8a octahydro 2,5,8 trimethyl 3,5-dinitro-, 1831³
- Glycine, N [N (*p*-aminobenzoyl)leucyl], Me ester, 491³
- Lysine, N⁶ alanyl N⁴ benzoyl-, 2974³
- C₁₆H₂₃N₂O Oxime of aldehyde from carboxy apocucidine, di Et ester, 707³
- C₁₆H₂₃N₂O Dipropylamine, picolonate 70³
- Hexylamine picolonate 70³
- Triethylamine, picolonate, 70³
- C₁₆H₂₃ Compd, bp 130-2°, from benzene treated with H₂SO₄, 3463³
- C₁₆H₂₃BrN₂O Compd of lupanine with BrCN 3006³
- C₁₆H₂₃ClNO₂ 1 Nonanol, 9-chloro-, carbamate 5395³
- C₁₆H₂₃ClN₂O, Glycine (chloroacetylglucylglycylglycylglycylglycylglycyl), 75³
- C₁₆H₂₃INO₃ 11 *b*-Beuto[ol]quinoxaline 1,2,3,4,6,7 hexahydro 9,10 dimethoxy methiodide, 1521³
- C₁₆H₂₃N₂ Benzimidazole, 2 nonyl 1800³
- C₁₆H₂₃N₂O Apocucidine methyl, di-ECIO, 4003³
- C₁₆H₂₃N₂O₂ Levulinic acid isoamyl ester phenylhydrazine 498³
- C₁₆H₂₃N₂O Alantolic acid compd with ClH₂N₃ 4006³
- Apocucidine carboxy dihydro and *per* chlorate, 42° 5³
- Carbanilic acid, β -acetamido-, heptyl ester, 5404³
- Isolantolic acid compd with ClH₂N₃, 4006³
- C₁₆H₂₃N₂O₂ Δ^3 -Butenylamine, N, N, β -triethyl picate, 4525³
- C₁₆H₂₃O Ether, 3 β menthyl phenyl 5672³
- Pelargonophenone, β -methyl, 5670³
- C₁₆H₂₃O₂ Compd, m 137-8°, from di Me clovenate and MeMgI, 3658³
- Enanthic acid, 6-ethyl- α -tolyl ester, 929³
- Enanthophenone, 3 ethyl 4 hydroxy 5 methyl, 929³
- 1 Heptanol 2 benzyl-, acetate, 4247³
- Hinokic acid, 2424³
- β Toluquinone, 5-nonyl, 5670³
- C₁₆H₂₃O₂ Acetic acid, (α -octylphenoxyl) 1229³
- C₁₆H₂₃O₂ β Toluquinone, 2,6-dihydroxy-5-nonyl-, 5670³
- C₁₆H₂₃O₂ Succinic acid, (1-carboxy 2 ketocyclopentyl), tri Et ester, 4331³
- C₁₆H₂₃BrN₂O Spartane, bromo- α -methoxy-, and HBr, 3007³
- C₁₆H₂₃ClS Sulfide, α -chlorodecyl phenyl, 5393³
- C₁₆H₂₃N Cyclohexylamine, N (γ -phenylisobutyl) and HCl, 1810³
- Etheno[4,8]pyridazine, 1,2,3a,4a,6,7,7a,8a - octahydro - 3,5,8 - trimethyl-, and salts, 1830³, 1831³
- C₁₆H₂₃NO₂ Dimcotine acid, 1,2(or 1,4)-di hydro - 1,2,2,4,6(or 1,2,4,4,6) - penta-methyl, di Et ester, 295³
- Dimcotine acid 4-ethyl 1,2-dihydro-1,2,6 trimethyl, di Et ester 295³
- Phthalic acid mono Bu ester BuNH₂ salt P 3665³
- 2 4-Pyrrolicdicarboxylic acid 3,5-dipropyl di Et ester, 3010³
- C₁₆H₂₃NO₃ Idosyl-6-amine, acetone β toluene sulfonate 2120³
- C₁₆H₂₃N₂O Pelargonophenone α -hydroxy semi carbazone 1229³
- C₁₆H₂₃N₂O Leucine cyclo-propylpropyl 1270³
- C₁₆H₂₃N₂O 2,2 Indandiacetic acid hexahydro- α keto-, di Me ester, semicarbazone 3335³
- C₁₆H₂₃N₂O 1 4 Piperazinediethanol α α di methyl, picate, 5170³
- C₁₆H₂₃ Decane 1 phenyl- 3469³
- Fluoranthene hexadecahydro- 1243³
- Nonane 1 β tolyl, 5670³
- C₁₆H₂₃N₂O See *Allylamine*
- C₁₆H₂₃N₂O Glucosic acid 2,3,5,6-tetramethyl phenylhydrazide 5666³
- C₁₆H₂₃N₂O Dusoamylammonium picate 2826³
- C₁₆H₂₃N₂O 3-Hexanol 6-dimethylamino-3 ethyl, picate, 4525³
- C₁₆H₂₃N₂O Glycine (glycylglycylglycylglycylglycylglycylglycyl) 75³
- C₁₆H₂₃O α -Cresol, 6-ethyl-4 heptyl 929³
- C₁₆H₂₃OS 1 Decanol 10-phenylmercapto- 5395³
- C₁₆H₂₃O₂ Compd m 123-4°, from sclerol, 3658³
- Cyclohexanol, 1 1 ethynylenebis(4 methyl 4557³
- C₁₆H₂₃O₂ Anisaldehyde di Bu acetal 922³
- Corchogenn, 3657³
- 2 Indandiacetic acid 2-acetonylhexahydro-, Et ester, 3335³
- Isolantolic acid, dihydro Me ester 4006³
- C₁₆H₂₃O₂ 2 Indandiacetic acid 2-carboxyhexahydro- di Et ester 3333³, 3334³
- C₁₆H₂₃O₂ Δ^3 1,1 5-Pentene tricarboxylic acid, 2,4 dimethyl tri Et ester, 5663³
- 1,1,3 Propanetricarboxylic acid 2 methyl 2 propenyl tri Et ester 5663³
- C₁₆H₂₃O₂ Di(dihydroxyhexanone)anhydride, di acetyl, 458³
- C₁₆H₂₃O₃ 1,2,3,3 Butanetetra-carboxylic acid, tetra Et ester, 1803³
- C₁₆H₂₃BrP Phosphine dibutyl(β -ethylphenyl) dibromide, 283³
- C₁₆H₂₃N Amine, N N-dusoamyl 1797³
- Toluene, nonyl sulfate, 5670³
- C₁₆H₂₃NO₃ Methylcyclohexanone N heptyl-, 2704³
- C₁₆H₂₃NO₂ Cyclohexylamine N (γ 2 furyl β methylpropenyl), tetrahydro deriv, acid oxalate, 1810³
- C₁₆H₂₃P Phosphine, dibutyl(β ethylphenyl), 283³
- Phosphine, dibutyl 2,5-xylol-, and compd with H₂C₆, 2702³
- , disobutyl 2 5-xylol-, and compd with H₂C₆, 2702³
- C₁₆H₂₃ Cyclohexane, 1,2,3,4,5,6-hexamethyl-4 (α methylpropenyl) (?), 3310³
- 2 4 Hexadiene, 3 4-dimethyl, dimer, 3309³
- C₁₆H₂₃OP β Ansyldibutylmethylphosphonium iodide, 283³
- C₁₆H₂₃N₂O Lupanine, N-methyl, and chloro oxalate, 3006³
- C₁₆H₂₃N₂O₂ Glutaramic acid, N(11) lupanyl, Me ester, 3007³

- C₁₂H₂₁N₃O₇ Glycine, leucylglycylglycylglycylglycylglycyl 2040⁹
- C₁₂H₂₁O₈ Alantolic acid, tetrahydro-, Me ester, 4000⁹
- 1 2 Ethanediol 1 2-dicyclobexyl, acetate, 5416⁹
- Orthoacetic acid phenyl, Me di Bu ester 2135⁹ Me diisobutyl ester 2135⁹
- C₁₂H₂₁N₃ Cyclohexylamine, γ (β isopropyl) β -isopentenylidene), 1809⁹
- C₁₂H₂₁NO₂ Malonic acid pelargonylamino-, di Et ester 5398⁹
- C₁₂H₂₁O₃P β -Asiylidibutylimethylphosphonium hydrazide, 283⁹
- C₁₂H₂₁N₃O₂ Pyrimidine 2 2 4,6 tetraethoxy α , β -diethyl 2 5-dihydro- 4229⁹
- C₁₂H₂₁N₃O₂ Chitosan methyl 1224⁹
- C₁₂H₂₁O₃ Valeric acid β -methoxy 3 β menthyl ester 5672⁹
- C₁₂H₂₁O₃ Caprylic acid α , α -dithio-, 982⁹
- C₁₂H₂₁O₃ Peroxide bis(β -isomoxypropionyl), 4849⁹
- C₁₂H₂₁BrO₃ Lauroic acid, α bromo- Ba and n-butyl esters 5663⁹
- C₁₂H₂₁N₃ Cyclohexylamine 4-(β -cyclohexylethyl) γ γ -d-methyl 5416⁹
- C₁₂H₂₁NO Caproamide γ 3 β menthyl, 1223⁹
- C₁₂H₂₁N₃O₂ Leucine γ (γ leucylglycyl), ethyl ester HCl 2⁹ 42⁹
- C₁₂H₂₁N₃ Pyrrolidine γ (11) lupinol, di methiodide 3007⁹
- C₁₂H₂₁O₃ (See also *Palmitic acid*)
- Myristic acid Et ester 1797⁹
- C₁₂H₂₁O₃S Palmitic acid, α mercapto- 982⁹
- C₁₂H₂₁Cl₂ Hexadecane 1-chloro- 5392⁹
- C₁₂H₂₁Cl₂ Hexadecane 1-iodo- 5322⁹ 5661⁹
- C₁₂H₂₁N₃ Isoheptylamine N -cyclohexyl β isopropyl and HCl 1509⁹
- C₁₂H₂₁NO₂ Lauric acid α -amino-, isobutyl ester 4850⁹
- C₁₂H₂₁N₃O₂ Compd, b.p. 160-2°, from EtMgBr and Cl₂C(CO₂)₂Et 2116⁹
- 1 4 Piperazinedithanol α , α -dimethyl- α dipropyl, and d -HCl 517⁹
- C₁₂H₂₁N₃O₂ 1 4 - Piperazinedithanol, α , α' -bis(propoxymethyl), and d -HCl, 517⁹
- C₁₂H₂₁O₃ (See also *Cetyl alcohol*)
- 6-Hendecanol, 6-amyl-, 2113⁹
- C₁₂H₂₁O₃ Sorbitol pentaethyl- P 964⁹
- C₁₂H₂₁AsI₂ Triamylmethylarsonium iodide, 1485⁹
- C₁₂H₂₁Cl₂N₃O₂Pt 1 β Hydroxyethyl 1-methylpiperidinium chloroplatinate 1814⁹
- C₁₂H₂₁Cl₂N₃O₂Pt Choline, propionyl, chloroplatinate, 2315⁹
- C₁₂H₂₁N₃S₂ Diisobutylamine, N , N' -dithio-, 4854⁹
- C₁₂H₂₁N₃N₃ 1177⁹
- C₁₂H₂₁Cl₂N₃O₂Pt β Methoxytrimethylenebis(trimethyleneammonium chloroplatinate), 5399⁹
- C₁₂H₂₁N₃O₂ 7 - *meso* - Benzanthreneone, tetra nitro-, 5170⁹
- C₁₂H₂₁Br₂O₃ Benzo[β]thiophanthrene - 6,11 - dione, 6-methyl-, tri Br deriv, 5166⁹
- C₁₂H₂₁ClO₃ Benzo[β]thiophanthrenecarbonyl chloride, 6,11 - dihydro - 6,11 - diketo , 5166⁹
- C₁₂H₂₁N₃O₂ 7 - *meso* - Benzanthreneone, trimetro , 5170⁹
- C₁₂H₂₁Br₂O₃ Benzo[β]thiophanthrene - 6,11 - dione, 2-(diisobromomethyl), 5166⁹
- C₁₂H₂₁O₃ Benzo[β]thiophanthrene - 9 - aldehyde, 6,11 - dihydro - 6,11 - diketo -, 5167⁹
- C₁₂H₂₁O₃S Benzo[β]thiophanthrenecarboxylic acid, 6,11-dihydro-6,11-diketo-, 5166⁹
- 2 Thiophanthrenecarboxylic acid 1-o-carboxybenzoyl, anhydride, 5167⁹
- C₁₂H₂₁Cl₂O₃ Benzo[β]thiophanthrene 2-(1 naphthyl) 3 5-dimetro-, 4258⁹
- C₁₂H₂₁ClO₃ Benzo[β]thiophanthrene - 6,11 dione, chloromethyl, 5166⁹ 5166⁹
- C₁₂H₂₁ClO₃ Benzo[β]thiophanthrene 6,11 - dione, 2-chloro - 7,10 - dihydroxy 4-methyl, 5166⁹
- C₁₂H₂₁Cl₂NO₂ Anthraquinone, 1 - chloro - 2 hydroxy - 3 (α - trichloroacetamidomethyl), 1242⁹
- C₁₂H₂₁N₃ 3-Fluoranthracene, 5163⁹
- C₁₂H₂₁N₃O₂ 7 *meso* Benzanthreneone, nitro , 5170⁹
- C₁₂H₂₁N₃O₂S Benzo[β]thiophanthrenecarboxamide, 6 11-dihydro-6,11-diketo , 5166⁹
- C₁₂H₂₁N₃O₂S Acetic acid, (1 - cyano - 2 anthraquinonylmercapto), 2723⁹
- C₁₂H₂₁Cl₂NO₂ Anthraquinone, 2 hydroxy 1-(trichloroacetamidomethyl), P 603⁹
- C₁₂H₂₁N₃O₂ Benzoic acid, 2 (1 - naphthyl) - 3,5-dimetro-, 4258⁹
- Naphthol, 3 5-dimetrobenzoate 2982⁹
- 5(4) Oxazolone, 4 (6 - nitropiperonyl idene) 2 phenyl, 3342⁹
- C₁₂H₂₁O₃ 7 *meso*-Benzanthreneone, 291⁹
- 2,3-Benzofluorene 11-one, 4000⁹
- 11 Chrysosfluorene, 4000⁹
- C₁₂H₂₁O₃S Fluoranthrenecarboxylic acid, 5163⁹
- C₁₂H₂₁O₃S Benzo[β]thiophanthrene 6,11 - dione, methyl, 5166⁹ 5166⁹
- C₁₂H₂₁O₃ 7 - *meso* - Benzanthreneone, 2,3 di hydroxy, P 712⁹
- β - Tolualdehyde, α (1,3 - diketo 2 - undanylidene), 1517⁹
- C₁₂H₂₁O₃S 2 Thiophanthrenecarboxylic acid, 1-o-carboxybenzoyl, 5167⁹
- C₁₂H₂₁O₃S Benzo[β]thiophanthrenesulfonic acid, 6,11 dihydro 6,11 diketo - 8 - methyl , *Na salt*, 5165⁹
- C₁₂H₂₁O₃ 1,1 (2 2) - Spiro[isobenzofuran] 3 carboxylic acid, 2,2' - diketo -, Me ester, 5118⁹
- C₁₂H₂₁O₃S 1 - Anthraquinonecarboxylic acid, 2 (carboxymethylmercapto) -, 2723⁹
- C₁₂H₂₁BrO₃ 9 Phenanthrenecarboxylic acid 8 bromo - 4 methoxy - 5,6 - methylenedioxy, 3663⁹
- C₁₂H₂₁Br₂NO₂ Cinchophen, 6,8 - dibromo - 4' - methoxy, 960⁹
- C₁₂H₂₁Cl₂O₃ Ketone, chloromethyl 8 - hydroxy - 5-quinolyl, picrate, 106⁹
- C₁₂H₂₁ClO₃S Benzoic acid, α (3 chloro - 3 methyl - 1 - thiophanthrenylcarboxyl), 5165⁹
- 1 Thiophanthrenecarboxylic acid, 2 benzoyl-chloromethyl, 5166⁹ 5166⁹
- C₁₂H₂₁N₃ Benzacridone, 294⁹
- Benzol[phenanthridine, 3344⁹
- C₁₂H₂₁NO₂ 7 *meso* - Benzanthreneone, amino , 5170⁹
- 3-Fluoranthrenecarboxamide, 5163⁹
- C₁₂H₂₁NO₂ Indeno[3,2 β]quinoline, methylenedioxy, 1253⁹
- C₁₂H₂₁NO₂ Benzamide, *N* (5 8 - dihydro 5,8 diketo 2-naphthyl), P 420⁹ P 1294⁹
- Benzocarbazolecarboxylic acid, hydroxy , P 965⁹
- C₁₂H₂₁NO₂ 2 - Anthraldehyde, 1 - acetamido - 9,10 dihydro - 9,10 - diketo -, 947⁹

- Cinchophen, 4'-carboxy, P 4558^a
1,2 - Pyrone 6 (β nitrophenyl) 4 phenyl, 2145^a
- C₁₇H₁₃NO₄ (See also *Heterophen*)
1 - Indanone, 4,5 - methylenedioxy - 2 o nitrobenzal, 1253^a
—, 2 (6 nitropiperonylidene), 1253^a
- C₁₇H₁₃NO₄S Acetic acid, (1 - carbamyl - 2 anthraquinonylmercapto), 2723^a
- C₁₇H₁₃NO₄S 2 Naphthalenesulfonic acid, 6 benzamide-1,4 dihydro 1,4 diketo-, No salt, P 1394^a
- C₁₇H₁₃N₂O₃ 3 Quinolonecarboxylic acid, 2 amino 6,7 methylenedioxy-, 1253^a
- C₁₇H₁₃N₂O₃ Benzamide 2 (1 naphthyl) 3,5 dinitro-, 4258^a
- Cinnamamide α cyano 4,5 methylenedioxy 2 nitro-, 1253^a
- C₁₇H₁₃N₂O₃S Ether methyl 1 mercapto-2 naphthyl, 3330^a
- C₁₇H₁₃N₂ 7 meso-Benzanthrene, 2921^a
1,4-Pentadine 1,5-diphenyl- 2421^a
- C₁₇H₁₃AN Arsenic, cyano-1 naphthylphenyl 1516^a
- C₁₇H₁₃Br₂N₂O₄ 4 - Pyrazolol 1 - (2,4 dibromophenyl) - 5 methyl, benzoate 3342^a
- C₁₇H₁₃ClNO₂ Cinchonoyl chloride, 6-methoxy 2 phenyl 4884^a
- C₁₇H₁₃ClN₂ 2 Quinoloneacetoneitrile 4 amino 3-chloro- 2430^a
- C₁₇H₁₃Cl₂N₂O₄ Pyrazolol, 1 (2,4 dichlorophenyl) 5 methyl benzoate, 3342^a
- C₁₇H₁₃FNO Benzamide N (4 fluoro 1 naphthyl), 4545^a
- C₁₇H₁₃INO 2 Naphthalene 3-iodo-, 2140^a
- C₁₇H₁₃N₂ 1 meso-Benzanthrene 1,3(2) damine P 4717^a
2,9 Pyridindole, 1 phenyl 3011^a
- C₁₇H₁₃N₂O₃ Indeno[2,3 β]quinoxaline - 11 acetic acid 5162^a
- Isocyanic acid 6 methoxy - 2 - phenyl 4 quinoyl ester, 4834^a
- Isosindigotin 1 methyl, 294^a
- C₁₇H₁₃N₂O₃ Cinnamamide, α cyano 3,4 methylenedioxy, 1253^a
- 2 Naphthoic acid 3 hydroxy-4 phenylazo-, 4877^a
- 2 Pyridol, 6 (β nitrophenyl) 4 phenyl, 2145^a
- C₁₇H₁₃N₂O₃ Benzamide N (4 hydroxy 1 naphthyl) β nitro-, 2994^a
- C₁₇H₁₃N₂O₃ Malonamide acid α (nitropiperonylidene), 5671^a
- C₁₇H₁₃N₂O₃S Ether, 3 (2,4 dinitrophenyl sulfonyl) 2 naphthylmethyl, 2138^a
- C₁₇H₁₃N₂O₃ Cinchonoyl azide, 6 methoxy 2 phenyl, 4884^a
- C₁₇H₁₃N₂O₃ Phenol, 2,6 dinitro 4 (β nitrophenyl), compd with pyridine, 2727^a
- C₁₇H₁₃N₂O₃ Ketone, 8 hydroxy 5 quinoyl methyl picrate, 106^a
- C₁₇H₁₃OKetone, 2 naphthylphenyl 944^a
- C₁₇H₁₃OS Xanthene 9 (2 thienyl), 2143^a
- C₁₇H₁₃O₂ Ketone hydroxynaphthyl phenyl, P 3358^a, P 5576^a
2-Naphthol, benzoate, P 1605^a, 1632^a
1,4-Pyrone, 2,6 diphenyl, 2352^a
- C₁₇H₁₃O₂ Betol, 4450^a
1,2,4 Cyclopentanetrione, 3,5 diphenyl-, 2999^a
- C₁₇H₁₃O₂S Benzene acid, o-(1 thionaphthenyl carbonyl)-, Me ester, 5162^a
- Thionaphthenecarboxylic acid, β -toluyl, 5162^a, 5166^a
- C₁₇H₁₃O₂ β Butenone acid γ -hydroxy- α -(3,4 methylenedioxyphenyl) γ phenyl, lactone 3325^a
- 4 Chromanone, 3 piperonylidene, 1534^a
- Crotonic acid γ hydroxy α (3,4 methylenedioxyphenyl) γ phenyl, lactone 3325^a
- Δ^3 1,1 Cyclopropenedicarboxylic acid 2,3-diphenyl 1806^a
- C₁₇H₁₃O₂S 1 Thionaphthenecarboxylic acid 2 amsoyl 5162^a
- C₁₇H₁₃O₂ Anthraquinone 2 hydroxy - 7 methoxy acetate 1519^a
- 4 Chromanone 7 hydroxy 3 piperonylidene- 1534^a
- Hermann 6 hydroxy benzoate 3080^a
- 9 Phenanthrenecarboxylic acid, 4 methoxy methylenedioxy, 3623^a
- C₁₇H₁₃O₂ 9,9,10 (10) - Anthracenetricarboxylic acid 1518^a
- C₁₇H₁₃O₂ Isophthalic acid, 5 (α carboxy benzoyl) 4 methoxy, P 2154^a
- C₁₇H₁₃BrN₂O₄ 4 Pyrazolol 1 (β bromophenyl) 5 methyl benzoate 3342^a
- C₁₇H₁₃BrN₂O₄ Anisole 2,4,6-trinitro, compd with 4,1 BrC₆H₄NH₂, 855^a
- C₁₇H₁₃Br₂N₂O₄ Phthalaz 1 one 2,4,6 dibromo 4 amino 3 phenyl 4 methyl, Ac deriv 4273^a
- C₁₇H₁₃Br₂N₂O₄ Phthalazine 4 acetic acid, 1 hydroxy 3 (2,6 dibromo 4 nitrophenyl) 1,3 dihydro, Me ester, 4273^a
- C₁₇H₁₃ClN₂O₄ 4 Pyrazolol 1 (β chlorophenyl) 5-methyl benzoate 3342^a
- C₁₇H₁₃ClN₂O₄ Glyoxime, chloromethyl, di Br deriv 801^a
- C₁₇H₁₃ClN₂O₄ Isoquinoline 1 (chloromethyl) 3,4 dihydro 6,7 methylenedioxy picrate 1531^a
- C₁₇H₁₃Cl₂N₂O₄ Phthalaz 1 one 2,6' dichloro 4' amino 3 - phenyl 4 - methyl Ac deriv, 4273^a
- C₁₇H₁₃Cl₂N₂O₄ Phthalazine 4 - acetic acid 1 hydroxy 3 (2,6' - dichloro 4 nitrophenyl) 1,3-dihydro, Me ester, 4273^a
- C₁₇H₁₃Cl₂NO₂ 1,3 Benzodioxan 6 carboxamide, 2,4 bis(dichloromethyl), 3428^a
- C₁₇H₁₃IOS Ether, 1 (α iodophenyl) - 2 - naphthylmethyl, 3335^a
- C₁₇H₁₃N γ Benzocarbazole 8-methyl 1523^a
- C₁₇H₁₃NO 2 - Naphthol, 3 (phenylamino methyl), 2146^a
- C₁₇H₁₃NO₂ Naphthoic acid, amino, 294^a
- C₁₇H₁₃NO₂S 2 Thiazolecarbamol, 4 phenyl, benzoate, 2722^a
- C₁₇H₁₃NO₂ (See also *Cinchophen* methoxy-)
1,2 Benzopyran 3 carboxytoluide, 2 keto-, 5671^a
- Cinchophen, 6-hydroxy, Me ester, 4883^a
- Crotonimide acid, γ hydroxy α - (3,4 - methylenedioxyphenyl) - γ phenyl -, lactone, 3325^a
- Homopiperonylonitrile, α phenacyl, 3324^a
- 5(4)-Oxazolone, 4 amyl 2 phenyl, 1508^a
- , 4 methoxybenzal 2 phenyl, 1508^a
- C₁₇H₁₃NO₂S 2(1) - Naphthalenone, 1 - nitro 1 β tolylmercapto-, 4257^a
- C₁₇H₁₃NO₂S 2 Anthraquinonecarboxylic acid, 1 amino, Et ester, P 2438^a
- Benzoic acid, β phthalimido-, Et ester, 1811^a

- Cinchophen 2,4-dihydroxy Me ester 700¹
- Δ Oxazone 4-epoxy 4-methyl 2 (3,4-methylenedioxyphenyl) 5-phenyl 293¹
- Quinonecarboxylic acid 1,4-dihydro 4-keto-6-methoxy 2-phenyl 1830¹
- C₁H₁₁N₃O₃S Toluenesulfonamide V (5,8-dihydro 8-diketo 2-naphthyl) P 1394¹
- C₁H₁₁NO₅S Benzoesulfonazole 1,2-dihydro 1-(naphthylsulfonyl) 9²5¹
- C₁H₁₁NO₅S Malonanilic acid α-piperonylidene 567¹
- C₁H₁₁NO Acrylic acid α (3,4-methylenedioxyphenyl) β γ nitro m anisyl 365³
- C₁H₁₁N₃O₃ Quinolinenitrile 2-β-tolueno 1203¹
- C₁H₁₁N₃O₃ Naphthoxazole 2 (β-amino phenylamino) 1,2-dihydro 2423¹
- C₁H₁₁N₃O₃ Benzoic acid m [γ (and 4) amino 1-naphthylazo] 510⁴
- 1-res (2-phenyl) 4-quinolylcarbonyl 4883¹
- C₁H₁₁N₃O₃ Cinnamotoluide α cyano o nitro 1203¹
- Naphthaldehyde 3-hydroxy p nitrophenylhydrazones 2145¹
- Naphthol methyl(p nitrophenylazo) 1241¹ 1515¹
- 1,2,4-Oxadiazole 3-benzoyl 5-phenyl osime Acetate 3673¹
- C₁H₁₁N₃O₃ Naphthalene, methyl picrate 944¹ 1810¹
- C₁H₁₁N₃O₃ Ketone ~ amino 8-hydroxy 5-quinolyl methyl picrate 2723¹
- C₁H₁₁N₃O₃ 2,5-Triazomercaptan 4-amino 6-styryl picrate 2730¹
- C₁H₁₁AsClN₃O₃ Quinol[4,3-β] 1,4-benzoxazine 7-chloro 7,12-dihydro 2-methoxy-6-methyl 1528¹
- C₁H₁₁AsClN₃O₃ Quinol[4,3-β] 1,4-benzoxazine 7-chloro 7,12-dihydro 2-methoxy-6-methyl ~ oxide, 10,8¹
- C₁H₁₁AsNO₃ 2(1) Pyridone 3 [bis(phenyl mercaptolary)] 4263¹
- C₁H₁₁BrNO₃ 2-Naphthalenetsulfono m toluate 5-bromo-6-hydroxy 5408¹
- C₁H₁₁ClN₃ 5-Chloro 2-methyl 1 [(2-methyl 1,2-benzothiazolylidene) methyl]benzothiazolium iodide 5170¹
- C₁H₁₁NO₅ 5-Benzoyl 8-hydroxy 1-methyl quinolinium iodide 100¹
- C₁H₁₁N₃ 2,9-Pyradole 3,4-dihydro 1-phenyl 301¹
- C₁H₁₁N₃O₃ 2-Naphthaldehyde, 3-hydroxy, phenylhydrazones, 2146¹
- 2-Naphthol 8-methyl 1-phenylazo, 1241¹
- C₁H₁₁N₃O₃ Anthranilic acid, V (4-methyl quinolyl) P 4663¹
- Benzoic acid, (4-methylquinolylamino), P 4663¹
- Cinchonnamide, 6-methoxy 2-phenyl, 4884¹
- Cinchophen 7-α-amino 6-methyl, and -HCl, 699²
- Cinnamamide, α cyano m-methoxy, 1253¹
- Imidaz[4,3-a]quinoxaline 8,8-disub, 5,6-dihydro-3-phenyl, and -HCl, 1231¹
- 4-Pyrazolol, 5-methyl 1-phenyl, benzoate, 3342¹
- C₁H₁₁N₃O₃ Benzol[cyclopent[β]indole, 7-acetyl 7,8,9,10-tetrahydro 5(?) nitro-, 1522¹
- C₁H₁₁N₃O₃ 2,3-Pyrroldinedione, 1 (3-nitro p tolyl)-5-phenyl-, 690¹
- C₁H₁₁N₃O₃ 3-Naphthol orange, methyl, 2993¹
- C₁H₁₁N₃O₃ Malonanilic acid, o-methyl α-nitrobenzyl, 5671¹
- C₁H₁₁N₃O₃ Urea α (dihydroxyanthraquinonylmethyl) β - (hydroxymethyl), P 6031 1242¹
- C₁H₁₁N₃O₃ Eugenol, 3,5-dinitrobenzoate, 2982¹
- Isocugenol, 3,5-dinitrobenzoate, 2982¹
- C₁H₁₁N₃O₃ Meconin, 2 (3,6-dinitro-2,5-cresyl), 4519¹
- Meconin 3-nitro-2-[4 (and 6) nitro 2-5-cresyl], 4519¹
- C₁H₁₁N₃O₃ Pyrazole, 1 (2,4-dinitrophenyl) 3-methyl-5-β-tolylsulfonyl, 1247¹
- C₁H₁₁N₃O₃ Anisole, 2,4,6-trinitro, compd with CaH₂/NH₃, 850¹
- Quinoxaline 3,4-dimethyl, picrate, 705¹
- 2-ethyl picrate, 1829¹
- C₁H₁₁N₃O₃ Quinolone, 8-methoxy-5-methyl, picrate 354¹
- C₁H₁₁N₃O₃ Pyruvaldehyde m-nitrobenzoyl osatone, 918¹
- C₁H₁₁O₃ Furan 2-benzohydril, 101¹
- 3-Pentadecanone, 1,5-diphenyl, compd with CuCl₂ and HCl, 3978¹
- C₁H₁₁O₃ Carbunol, diphenyl 2-thienyl-, 2143¹
- C₁H₁₁O₃ 2-Anthracene ethyl, 5420¹
- Fluorene 2,7-diacetyl, 5416¹
- Monocarboxylic acid, m 188², from tetrahydroanthracene, 2997¹
- C₁H₁₁O₃ 9-Anthrol, 3-methoxy, acetate, 1019¹
- β-Butene acid, α-p-anisyl γ-hydroxy-γ-phenyl, lactone, 3324¹
- 4-Chromanone, 3-anisal, 1534¹
- Crotonic acid, α-p-anisyl γ-hydroxy-γ-phenyl, lactone, 3324¹
- C₁H₁₁O₃ 2-Anthracene ethyldihydro hydroxyketo, 5420¹
- Chalcone, β-hydroxy methylcarbonate, 3631¹
- 4-Chromanone 3-anisyl, 1534¹
- Chrysan 3-ethyl-, 4200¹
- Coumarin, 7,8-dimethoxy 4-phenyl, 5671¹
- 9,9-Fluorenedicarboxylic acid, di Me ester, 4254¹
- Hydroquinone, monoacetate, monooxamate, 06¹
- 1,1-Isodandicarboxylic acid, 3-phenyl, 1517¹
- Isocoumarin, 7,8-dimethoxy-3-phenyl, 5898¹
- Isodavone, 4',7'-dimethoxy, 5675¹
- , 7-hydroxy 4-methoxy 2-methyl, 3327¹
- Phthalide, 2-anisal-8-methoxy 288¹
- Δ³-1-Propenol, 3-(3,4-methylenedioxyphenyl), benzoate, 2708¹
- C₁H₁₁O₃ 2-Naphthol, 1 (2,5-cresylsulfonyl)-, 5674¹
- C₁H₁₁O₃ 4-Chromanone, 3-anisal 7,8-dihydroxy, 1534¹
- , 7-hydroxy 3-anisal, 1534¹
- Isodavone, 7-hydroxy 4,5-dimethoxy, 5675¹

- Piperonylic acid, α phenacyl, 3324¹
 C₁₇H₁₄O₄ + H₂O 4 - Chromanone, 7,8 diby
 droxy 3-vanillal, 1534⁴
 C₁₇H₁₄O₄ Acid m 199¹, from xybendein, 125¹
 C₁₇H₁₄S₂ Thiophene, 2-benzohydryl, 2143¹
 C₁₇H₁₄As Arsanic, methyl - 1 naphthylphenyl
 1516¹
 C₁₇H₁₄AsN₂O₂ Quinox[4,3 - β] - 1,4 - benzaz
 aranic acid, 2 - methoxy - 6 methyl,
 1528⁴
 C₁₇H₁₄AsN₂O₂ Arsanilic acid, N - (N - quinoxyl
 glycol), nitroso deriv, 3999¹
 C₁₇H₁₄BrN₂ Acrylonitrile, β - (3 - bromo - 4
 dimethylaminophenyl) - α phenyl
 1508¹
 C₁₇H₁₄BrN₂O₂ Phthalimide, 2 - (4 acetamido
 2 - bromophenyl) - 3 methyl -, 4273¹
 C₁₇H₁₄BrN₂S₂ 2 - Methyl - 1 - (2 - methyl 1
 (2) - benzothiazolylidene)methyl)benzo-
 thiazolum bromide, 703¹
 C₁₇H₁₄ClN₂O₂ 2(1) - Thionaphthenone, chlo. α
 1 - (ϕ - dimethylaminophenylamino)
 methyl, 5185¹
 C₁₇H₁₄ClN₂O₂ 2 Methyl - 1 - [(2 methyl
 1(2) - benzothiazolylidene)methyl]benzo-
 thiazolum perchlorate, 5189¹
 C₁₇H₁₄ClN₂S₂ 2 - Methyl - 1 - (2 - methyl
 1(2) benzothiazolylidene)methyl)benzo-
 thiazolum chloride, 703¹
 C₁₇H₁₄ClN₂O₂ Isoquinoline 1 - (chloromethyl)
 3,4 - dihydro - 5 methoxy -, picate,
 1531¹
 C₁₇H₁₄ClO₄ + 2H₂O 2',4' Dimethoxyflavylum
 chloride, 515¹
 C₁₇H₁₄IN₂S₂ 2 - Methyl - 1 (2 methyl 1(2)
 benzothiazolylidene)methyl)benzothiazolum
 iodide, 703¹
 C₁₇H₁₄N Naphthylamine, benzyl, 1515¹, 1517¹
 C₁₇H₁₄NO Benzocyclopentadiene, acetyltetra-
 hydro-, 1522¹
 2 Naphthol, 6-*p*-tolueno-, P 501¹
 2 Naphthylamine, 6-benzyloxy P 302¹
 C₁₇H₁₄NO₂ Acrylonitrile, β (dimethoxyphenyl)
 α phenyl-, 2710¹
 β - Butenimide acid, α ϕ anisyl 7
 hydroxy- γ phenyl-, lactone 3325¹
 Homocyanonitrile, α phenacyl, 3324¹
 Iodene, 1,1-dimethyl 3 nitro 2 phenyl
 695¹
 Oxazole, 2 - ϕ - anisyl - 4 methyl 5
 phenyl, 293¹
 C₁₇H₁₄NO₂S 1 - Naphthalenesulfonamide 7
 methyl, 1515¹
 C₁₇H₁₄NO₂ Cinnamotoluide 3,4 methylene-
 dioxy, 5671¹
 Δ^1 Oxazolone, 2 ϕ anisyl 4,5 epoxy - 4
 methyl 5 phenyl-, 294¹
 4(1) - Quinolone, 2 - ϕ anisyl 6 methoxy -
 1830¹
 C₁₇H₁₄NO₂S 2 - Naphthalenesulfonamide 3
 methoxy 2138¹
 C₁₇H₁₄NO₂ Cinnamic acid, α benzamido-
 methoxy, 1509¹
 Homopiperonylamine, N piperonylidene-,
 3632¹
 Malonanilic acid, α -ansal, 5671¹
 Piperonylamine, α phenacyl 3325¹
 Δ^2 - 1 - Propenol, 3 - (3,4 - methylenedioxy-
 phenyl), carbamate, 2708¹
 C₁₇H₁₄NO₂ Malonanilic acid, α piperonyl-, 5671¹
 Serine, N benzoyl benzoate, 1534¹
 C₁₇H₁₄NO₂ Mecouic, 2 - (2,5 - cresyl) - 3 -
 nitro-, 4519¹
 Mecouic 2 (3 nitro 2,5 cresyl) 4519¹
 C₁₇H₁₄N₂O₂ 2(3) Thiazolone 4 ϕ tolyl,
 hydrazone Ba deriv, 1532¹
 C₁₇H₁₄N₂O₂ Acrylonitrile, β (4 dimethyl
 amino 3 nitrophenyl) α phenyl,
 1508¹
 Cinchophen 5 methoxy hydrazide, 4884¹
 Dictaminal phenylhydrazide, 298¹
 1,3(2,4) Isoquinolinedione, 4-xylylazo-
 3648¹
 Phthalaz 1 one 4 amino 3 phenyl
 4 methyl- Ac deriv, 4273¹
 C₁₇H₁₄N₂O₂ Glyoxime, acetamidophenyl, Ba
 deriv 1490¹
 Glyoxylhydroxamicamide α phenyl
 oxime, Ac Ba deriv, 3623¹
 C₁₇H₁₄N₂S₂ Ketone methyl 4 phenyl 2
 thiazyl, phenylhydrazide 2722¹
 Semicarbazide, 4 (1 naphthyl) 1 phenyl
 thio- 2701¹
 2(3) Thiazolone, 4 ϕ - tolyl amine with
 BrH, 1532¹
 C₁₇H₁₄N₂O₂ Pyrazolobenzotriazine, 4,5 dihydro
 5 hydroxy 2 methyl 7 nitro 4 ϕ
 tolyl 5-oxide, 1246¹
 C₁₇H₁₄ Anthracene, trimethyl, 299¹, 3646¹,
 4547¹
 Indene, 1,1-dimethylphenyl-, 694¹, 4240¹
 Pimarothrene, methyl, 2136¹
 C₁₇H₁₄AsN₂O₂ Arsanilic acid N (N-quinoxyl
 glycol), and Na salt 3999¹
 C₁₇H₁₄BrNO Chalcone, 3 bromo 4 dimethyl
 amino-, 1509¹
 C₁₇H₁₄BrNO₂ Carbanilic acid, 3 bromo 2
 hydroxy 5 methyl Et ester, benzo-
 ate, 5408¹
 C₁₇H₁₄Br₂O₂ Propiophenone α β dibromo ϕ
 ethoxy ϕ phenyl, 1819¹
 C₁₇H₁₄Cl₂FeNO Isoxazole, 3,4-diphenyl, Et
 deriv, FeCl₂ deriv 514¹
 C₁₇H₁₄Hg₂O₂ Cresol, α -phenyl- bis(acetoxy
 mercury) deriv, 4254¹
 C₁₇H₁₄NO₂ Anisamine, and salts, 705¹
 C₁₇H₁₄N₂ Acrylonitrile, β (ϕ dimethylamino-
 phenyl) α phenyl, 1508¹
 C₁₇H₁₄N₂O Benzol[cy]clopent[β]indole, 1(?)
 acetyl 7,8,9,10 tetrahydro, oxime
 1522¹
 Quinoxalidine 4 anilino 6 methoxy -, and
 HCl, 1528¹
 Quinoxaline 4 amino 5 ethoxy - 2 - phenyl
 and HCl, 4884¹
 C₁₇H₁₄N₂O₂ Cinnamaldehyde, α methyl 3,4
 methylenedioxy, phenylhydrazide, 1230¹
 Phthalazine, 1 benzyl 6,7 dimethoxy
 297¹
 Phthalimide, 2 (ϕ acetamidophenyl) 3
 methyl, 4273¹
 Tryptophol, carbamate, 514¹
 C₁₇H₁₄N₂O₂ Anthranilic acid, 5-nitro N pro-
 pyl-, benzyl ester, 4244¹
 C₁₇H₁₄N₂O₂ Thymol, 3,5-dinitrobenzoate, 2982¹
 C₁₇H₁₄N₂O₂ 2,5-Cresotic acid, α , α' urtidobis,
 5399¹
 Gumaccol, 4 - propyl -, 3,5 dinitrobenzoate,
 2982¹
 C₁₇H₁₄N₂O₂ 2 Naphthylamine, 3,4 dihydro
 N methyl, picate, 2139¹
 Δ^2 -Pyrroline, 2 benzyl, picate, 2997¹
 γ - 1 - methyl - 2 - phenyl, picate, 102¹
 C₁₇H₁₄N₂O₂ 1 Propanol 3 (3 indyl), picate
 514¹

- C₁₁H₁₆N₂S₂ 2(3) Thiazolone, 4 *p* tolyl, 4 phenylthiosemicarbazone, 1532¹
 C₁₁H₁₆O₃ Δ¹-3 Pentenone, 1 5-diphenyl, 4550²
 C₁₁H₁₆O₃ Anthrone 10 methoxydimethyl, 2994¹, 3616², 4547³
 1 3 Butanedione 2 benzyl 1 phenyl-, 52¹
 1 Indolecarboxylic acid, 3 phenyl Me ester, 1517¹
 Δ¹ 3 Pentenone 5 phenyl 1-salicyl, 4550²
 1 3 Propanedione, 2,2 dimethyl-1 3 diphenyl- 3642¹
 C₁₁H₁₆O₃ Anthracene 1 2 10-trimethoxy, 1520²
 Benzoic acid, *o* (α,α dimethylphenacyl), 694¹
 1 3(2) Benzophenethedione 2 butyl 4 hydroxy 2140²
 Pyruvic acid diphenyl, Et ester, 941¹
 C₁₁H₁₆O₃ Acetic acid, (α-phenacylbenzylmercapto), 4830²
 C₁₁H₁₆O₃ Homocinnamic acid, α phenacyl, 3324¹
 Phthalide 6 methoxy-2-*p* methoxybenzyl 288¹
 C₁₁H₁₆O₃ Acetophenone, 4 hydroxy-2,6 dimethoxy, benzoate, 4230²
 Benzoic acid, *o*-(2 4-dimethoxy *m* tolyl), 3326¹
 Meconin 2 (2 5-cresyl), 4519¹
 Opianic acid benzylester 5897¹
 Phlorobutyrophenone 4-benzoate, 4250²
 C₁₁H₁₆O₃ Benzoic acid 4 methoxy 3,4'-oxybis-*o* Me ester, 2731¹
 C₁₁H₁₆AsN₂O₄ Arsenic acid, *N* (δ methoxy 2 methyl-4-quinolyl), 704¹
o Arsenic acid *N* (6 methoxy 2 methyl-4-quinolyl), 1528¹
 C₁₁H₁₆ClN₂O₃ Salicylic acid, (β tolylazo), compd with EtCOCl, 3322¹
 C₁₁H₁₆FN₂O₃ Piperidine, 1 (4 (β fluoro phenyl)-3 nitrophenyl) 4233¹
 C₁₁H₁₆IN₂ 1 Methyl-α (1 methyl 2(1) pyridylidene)quinazolinum iodide, 4269²
 C₁₁H₁₆N₂ Acridine, 1,3,7,9 tetramethyl-, 4533¹
 7-Benzosulfonamide, 8,9,10,11 tetrahydro-8-methyl, 1523¹
 Protuberberine, tetrahydro- 3347¹
 C₁₁H₁₆NO₃ Chalcone 4-dimethylamino-, 1505¹
 Cinnamamide, *N* ethyl, 1509¹
 Crotonophenone β-anilino-*p*-methyl-, 4651¹
 C₁₁H₁₆NO₃ (See also Apomorphine)
 Δ¹ 2-Butenol, 4-phenyl, carbamate, 923¹
o-Cinnamotoluide, *p*-methoxy-, 5671¹
 Phthalimide, 3 methyl 2 *p* phenetyl, 4273¹
 C₁₁H₁₆NO₃ Cinnamamide, 3,4 dimethoxy-, 5671¹
 Propionamide, *o*-hydroxy, *α*-toluate, 1815¹
α-Toluidide, *p*-methoxy-*α*-phenacyl, 3323¹
α-Toluidide, *o*-hydroxy-*α*-propionate, 1818¹
 C₁₁H₁₆NO₃ 2-Naphthalenesulfonic acid, 8-methyl-, anilino salt, 1241¹
 C₁₁H₁₆NO₃ Benzoic acid, *p* (β-acetamidophenoxyl)-, Et ester, 2709¹
 Benzoin, dimethylammonomethylenedioxy, 3644¹
 Carbamic acid, *o*-hydroxy, Et ester, *α*-toluate, 1818¹
 Homopropionylamide, *N* piperonyl, and salts, 3633¹
 C₁₁H₁₆NO₃ 1-Methyl 2-phenylquinolinium methylsulfate, 2967¹
 C₁₁H₁₆NO₃ Benzoic acid, *p* (β-nitrophenoxyl), Bu ester, 2703¹
 C₁₁H₁₆NO₃ + 3H₂O Apomorphinesulfonic acid, 1323¹
 C₁₁H₁₆NO₃ Phenethyl alcohol 3,4 dimethoxy-, *p* nitrobenzoate, 3632¹
 C₁₁H₁₆N₂O₃ Crotonophenone (7), 4 phenylsemicarbazone, 2132¹
 Isocrotonophenone (7), 4-phenylsemicarbazone, 2132¹
 Quinaldine, 4 (aminoanilino) 6-methoxy, 704¹
 C₁₁H₁₆N₂O₃ Compd, *m* 194°, from dihydromonocyclopentadienecarbazone and PhN₃, 1807¹
 1,2-Propanedione, 1 phenyl, 2-oxime, 1 phenylhydrazone, Ac deriv, 1827¹
 C₁₁H₁₆N₂O₃ Benzoin, 4'-methyl-3,4-methylenedioxy, semicarbazone 4876¹
 C₁₁H₁₆N₂O₃ Benzene, 2,4-dimethoxy-1-propenyl, picrate, 5507¹
 C₁₁H₁₆N₂O₃ Crotonophenone (7), 4 phenylthiosemicarbazone, 2132¹
 Isocrotonophenone (7), 4-phenylthiosemicarbazone, 2132¹
 1,4,3 Isothioadiazine, 2-toluene 5-*p* tolyl and-*HCl*, 1632¹
 1,3,4 Triazole, 2-(ethylmercapto)-5-phenyl 1-(and *p*) tolyl-, 2119¹, 2120¹
 C₁₁H₁₆N₂O₃ 1,2,5-Triazole, 3-(*p* dimethyl aminophenyl) 4-methyl-1 (β-nitro phenyl), and salts, 933¹
 C₁₁H₁₆N₂O₃ Benzyl(cyanomethyl)dimethylammonium picrate, 91¹
 Indole, 3-(β-aminoethyl)-1-methyl, picrate, 301¹
 C₁₁H₁₆N₂O₃ Indole, 3-(β-aminoethyl)-5-methoxy, picrate, 301¹
 Pyridine, β-(1-acetyl-2-pyrrolyl), picrate, 300¹
 C₁₁H₁₆BrNO₃ Propiophenone, *p*-bromo-*α*-dimethylamino β-phenyl-, and-*HCl*, 91¹
 Propiophenone, β-(bromophenyl)-*α*-dimethylamino-, 91¹
 C₁₁H₁₆BrN₂O₃ 2-Pyrrolicarboxylic acid, 4-(β bromovinyl)-5 formyl-3 methyl, Et ester, phenylhydrazone, 1520¹
 C₁₁H₁₆Br₂HgO₃ Methane, bromo(bromomercurthio) *p* phenetyl, 2413¹
 C₁₁H₁₆NaO₃ Anabaine, benzoyl, 3347¹
 Cinnamalddehyde, *p* methoxy-*α*-methyl, phenylhydrazone, 1230¹
 C₁₁H₁₆NaO₃ 2(1)-Quinazoline, 4-ethoxy-3,4-dihydro 2 thio-3-tolyl, 3323¹
 C₁₁H₁₆N₂O₃ Acetamide, *α* benzamido-*N*-phenethyl-, 1530¹
 C₁₁H₁₆N₂O₃ Benzoic acid, 5-amino-2-propionylamino-, benzyl ester, -*HCl*, 4245¹
 Propiophenone, *α*-dimethylamino-β-(*p*-nitrophenyl), 91¹
α-Toluid acid, veratraldehyde, 297¹
 C₁₁H₁₆N₂O₃ Acetanilide, *p*, *p*' methylenedioxy, 5393¹
 Ephedrine, *N*-*p*-nitrobenzoyl, 5671¹
 Ethanol, 2-benzylmethylamino, *p* nitrobenzoate, -*HCl*, 2709¹
 C₁₁H₁₆N₂O₃ Camphor, *α*-hydroxy-, dimethylbenzoate, 4871¹
 Epicamphor, 2 hydroxy, dimethylbenzoate, 4871¹

- C₁₇H₁₉N₃O₃S Carbanilide, *p*, *p'*-diacetamidothio-, 1604¹
- C₁₇H₁₉N₃O₄ Carbanilide, *p*, *p'*-diacetamido-, 1503²
- C₁₇H₁₉N₃O₄ Theobromine, 1 (*β* hydroxy propyl) benzoate, 1031¹
- C₁₇H₁₉N₃O₄ Quinoline, 1, 2, 3, 4 tetrahydrodi methyl picrate, 7051³
- Urea, *s*-bis(2-hydroxy 3-methyl 3-nitrobenzyl)-, 5399²
- Urea, *s*-bis(4-methoxy-3-nitrobenzyl)-, 5399²
- C₁₇H₁₉N₃O₄ 2 Indanamine, 1 methoxy *N* methyl, picrate 2139²
- C₁₇H₁₉N₃O₄ Benzyl(carboxymethyl)dimethyl ammonium picrate, 91¹
- C₁₇H₁₉N₃O₄ *o*-Toluic acid, *α*-amino-3, 4, 5-trimethoxy, picrate, 1226²
- C₁₇H₁₉N₃O₄ + H₂O Anisaldehyde, 7 (*β* formyl phenoxy), disemicarbazone, 2983²
- C₁₇H₁₉O₄ 2 Butanone, 3 benzyl 4 phenyl 3664¹, 542¹
- 1 Indanol, 3,3-dimethyl 1 phenyl, 4240²
- 2 Propanone, 1,3-ditolyl, 5409²
- C₁₇H₁₉O₄ 2 Butanone, 4-phenyl 4 *p* tolylmercapto-, 4830¹
- C₁₇H₁₉O₄ Butyric acid, diphenyl, Me ester 3329¹, 4240²
- Isodurool, benzoate, 4533¹
- Mentol, *α*-phenyl, acetate 929¹
- Phenol *p*-butyl benzoate, 1229¹
- C₁₇H₁₉O₄ Dehydrothebesone, 3002²
- C₁₇H₁₉O₄ Butyric acid, *β*-*p*-amyl *β* hydroxy-*α* phenyl, 2966²
- Glycine acid *β* *β*-diphenyl, Et ester 941¹
- 2 Propanol 1,3-diphenoxy, acetate 2692²
- C₁₇H₁₉O₄S 5-*m*-Dioxanol 2 phenyl, *p* toluenesulfonate 3962²
- C₁₇H₁₉O₄ *α*, *α*-Toluenediol trihydroxy, penta acetate, 933¹ 3979²
- C₁₇H₁₉BrN₃O₄ Methene from cryptopyrrole and 4-(*β*-bromovinyl) 5 formyl 3 methyl 2 pyrrololecarboxylic acid, *HBr*, 1520²
- C₁₇H₁₉BrN₃O₄ Dimethyl *p* nitrobenzylphenacylammonium bromide 91¹
- C₁₇H₁₉BrN₃O₄ Benzyl(*p* bromophenacyl)dimethyl ammonium bromide 91¹
- Bromobenzyl(methylphenacyl)ammonium bromide 91¹
- C₁₇H₁₉ClN₃O₄ Phenol, *p*-phenylazo-, isovaleryl chloride compd, 3321¹
- C₁₇H₁₉KN₃O₄S Potassium salt of osazone of compd from 2-methyl 2,3 butadiene sulfone, 277²
- C₁₇H₁₉NO Hydrocinnamamide, *N*, *β*-dimethyl, 489¹
- Isouquinoline, 1,2,3,4-tetrahydro-1 (*β* methoxybenzyl)-, and *HCl*, 4552¹
- C₁₇H₁₉NO₄ *α*-Cresol, *α*-propyl, carbanilate, 929¹
- Ethanol 2 benzylmethylamino-, benzoate *HCl*, 2709²
- Isodurool, carbanilate, 4533¹
- 6-Isouquinolinol, 1,2,3,4-tetrahydro 1-(*β*-methoxybenzyl)-, and *HCl*, 4552¹
- Phenethylamine, *N*-anilal-*p* methoxy-, 3632²
- , *N* veratral, 3632²
- α* Toluamide *p* methoxy *N* phenethyl, 4552¹
- C₁₇H₁₉NO₄ (See also *Morphine*, *Piperine*)
- Benzoic acid, *p* (*p* aminophenoxy), Bu ester and *HCl*, 2705²
- C₁₇H₁₉NO₄ Benzamide, *N* (2,3,4 trimethoxy benzyl), 1226¹
- 1-Lithanol, 1-(*o* methoxyphenyl) 2 (*o*-methoxybenzylidene)oxazino- 516¹
- Phenethyl alcohol, 3,4-dimethoxy, carbanilate 3632²
- C₁₇H₁₉NO₄ *β* Ascoronamide 5154²
- C₁₇H₁₉NO₄ Malonic acid, (methoxymethyl) phthalimido-di-Et ester, 1485¹
- C₁₇H₁₉NO₄ Benzaldehyde *m* nitro, 2 *p* cymylhydrazine 1227²
- 4 Isopyrrolopropionic acid 2 (4 cyano 3,5 dimethyl 2 pyrrolylmethylene) 3,5 dimethyl, *HBr* 698²
- C₁₇H₁₉NO₄ Benzoin 2,4-dimethoxy, semi carbazone, 4876¹
- C₁₇H₁₉NO₄S Alanine, *N* [*N* (*N* 2 naphthalenesulfonylethylglycyl)glycyl], 2⁴¹
- Glycine *N* [*N* (*V* 2 naphthalene sulfonylethylglycyl)alanine], 2741²
- C₁₇H₁₉N₃O₄ Benzene pentamethyl, picrate 1815¹
- Mescaline *N* (2,4-dinitrophenyl), 5405²
- Phenethylamine, *N* (2,4 dinitrophenyl) 2,4,5-trimethoxy, 5405²
- C₁₇H₁₉N₃O₄ Carbanilide acid, *o*(and *p*) methyl thiol Et ester azine with *HxH*, and *solis*, 2116¹, 2120¹
- C₁₇H₁₉N₃O₄ Theobromine, 1 (*β* hydroxy propyl), carbanilate 1031¹
- C₁₇H₁₉N₃O₄ Pyridine, 3 (1 ethyl 2 pyrrolyl-yl), picrate 300¹
- C₁₇H₁₉ Butane 2 benzyl 1 phenyl, 5425¹
- Compd, *m* 36-7² from agathidicarbonylic acid 1232²
- Pentane, 1,5-diphenyl, 4543²
- C₁₇H₁₉AsN Phenarsazine, 1,6 dihydro 1 isomyl, 1831¹
- C₁₇H₁₉AsNO Phenarsazine, 1,6 dihydro-1-isomyl, 1-oxide 1831¹
- C₁₇H₁₉Br₂N₃O₄ Nucine, 2 hydroxy-3,4-dibromo, 705¹, 3349²
- C₁₇H₁₉FN Dibenzylamine, *N* ethyl *p*-fluoro-*p* methyl, 923¹
- C₁₇H₁₉N Allylbenzylmethylphenylammonium iodide 1502¹
- C₁₇H₁₉N₂O See *Centralis*
- C₁₇H₁₉N₂O₄ Compd, *m* 63², from benzylamine and benzaldehyde, 2 methylsemicarbazone, 2701¹
- Ethanol, 2 benzylmethylamino, *p*-amino-benzoate, *ds-HCl*, 2⁴⁰
- C₁₇H₁₉N₂O₄S Carbanilide, *p*, *p'*-diethoxythio, 4242²
- C₁₇H₁₉N₂O₄ Allylbenzylmethylphenylammonium nitrate, 1502¹
- Carbanilate, *p* *p'*-diethoxy-, 936¹
- Isoleucine, *N* 1 naphthylcarbamyl, 2417¹, 2418¹
- Nucidine, 2,3-diketo-, 705¹, 4002¹, 4275¹
- Phthalimide, *N* (aminotolyl)hexahydro-, Ac deriv, 701¹
- α*-Toluic acid, *β* veratrylhydrazide, 297¹
- Urea, *s*-bis(2-hydroxy 3-methylbenzyl)-, *F* 1261¹, 5399²
- , *α* (3,4 dimethoxyphenethyl) *β* phenyl 5409²
- C₁₇H₁₉N₂O₄ Compd, *m* 243-5², from oxidation of tetrahydrostrychnine and persulfate, 2431¹, 2432¹

- Nucleine, 2,3-diketo-, amine oxide, *perchlorate*, 706⁹
- 3 Pyrrolecarboxylic acid, 2 (4 acetyl 3,5 dimethyl 2-isopropylidenemethyl) 5 hydroxy 4 methyl, Et ester, 4010¹
- C₁₇H₁₇N₃O₅ 2 - Pyrrolecarboxylic acid, 5,5 carbonylbis[3 ethyl 4 methyl, 5900¹
- C₁₇H₁₇N₃O₅ Borneol, dimutrobenzoate 4871¹
- Camphanol, dimutrobenzoate, 4871¹
- Epiborneol, dimutrobenzoate, 4871¹
- Isoborneol, dimutrobenzoate 4871¹
- C₁₇H₁₇N₃O₅ A¹ - Nucleic acid, 2 keto-, hydrate, 706⁹
- C₁₇H₁₇N₃O₅ Nucleic acid, 2,3-diketo-, hydrate, 705⁹
- C₁₇H₁₇N₃O₅ Benzophenone, *p* *p'* bis(dimethyl amino)thio-, 1239²
- C₁₇H₁₇N₃O₅ 2,3-Pentanedione phenylsazone 1488⁹
- C₁₇H₁₇N₃O₅ Acetoacetic acid, (3,5 dimethyl 1 phenyl 4 pyrazolylazo), Et ester, 1523⁹
- C₁₇H₁₇N₃O₅ Urea, α α' - methylenebis[5 2,5 dihydroxybenzyl- 5398⁹
- C₁₇H₁₇N₃O₅ Meadine, V, N-dimethyl-, picrate, 4533⁹
- C₁₇H₁₇N₃O₅ Aniline Δ N dimethyl m propoxy picrate 5669¹
- 2,4 - Xylidine, α^1 methoxy N N - di methyl-, picrate, 1814¹
- C₁₇H₁₇N₃O₅ 2,4 Pentanediamine dipicrate, 4223¹
- C₁₇H₁₇O₅ Camphor, benzoyl, 5628¹
- Caprophenone, β 2 furyl α methyl, 5424¹
- Valerophenone, α ethyl β 2 furyl, 5424¹
- , β 2 furyl α dimethyl, 5424¹
- C₁₇H₁₇O₅ 2 - Propanol, 1,3 - bis(benzoyloxy) 916¹, 2692²
- 2 Propanol, 1,3-ditoloxy, 916¹
- Thebenone, 3002¹
- C₁₇H₁₇Br₄N₃O₅ Isopropylpropionic acid, 2 (5 bromo - 3 - ethyl 4 methyl - 2 pyrrolimethylene)dimethyl *HBr*, 111¹ 4009¹
- 3 Pyrrolepropionic acid, 2 (5 bromo 4 - ethyl - 3 - methyl 2 isopropylidene-methyl) 4,5 dimethyl - *HBr*, 111¹
- C₁₇H₁₇Br₄N₃O₅ Nucleic, 2 keto 3(or 4) bromo-, hydrate, 3349⁹
- C₁₇H₁₇Br₄N₃O₅ Dibenzylidimethylammonium iodide, *CHBr* compd., 282⁹
- C₁₇H₁₇FIN (p Fluorobenzyl)dimethyl(p methylbenzyl)ammonium iodide, 925⁹
- C₁₇H₁₇HgI₃S Dibenzylpropylsulfonium mercury iodide, 689¹
- C₁₇H₁₇IN₃ (α - Benzalamin β tolyl)trimethyl ammonium iodide, 4243⁹
- (α Benzylamino - β tolyl)trimethyl ammonium iodide, 4243⁹
- C₁₇H₁₇N Dibenzylamine, N-ethyl β methyl, 925⁹
- C₁₇H₁₇N₃O₅ Anthranilic acid, N - 2 camphanil idene-, *Ph salt*, 940¹
- Benzoic acid, β -2-camphanilideneamino-, 940¹
- 2 Hexanol, 1 asphthalene-carbamate, 1818⁹
- Phenethylamine, N - benzyl - 3,4 - di methoxy, and - *HCl*, 3633¹
- Veratrylamine N-(β methoxyphenethyl)-, and *salt*, 3633¹
- , N phenethyl-, and *salt*, 3633¹
- C₁₇H₁₇N₃O₅ β - Toluene-sulfonamide, N methyl V-(γ phenylpropyl), 2709¹
- β Toluene-sulfonamide, N - (β - phenyl butyl) 2709¹
- Toluene-sulfonamide, *see* butyl-, 283¹
- , N,2,4,6-tetramethyl-, 4533¹
- C₁₇H₁₇N₃O₅ Benzyl alcohol, α -methoxy- α -(α -methoxybenzyl)ammoniumethyl, 516¹
- Morphine, dihydro-, *Ph salt*, 525¹
- Thebenone, oxime, 3002¹
- C₁₇H₁₇N₃O₅ (See also *Alcascine Cocaine Scopol amine*)
- Glutaric acid β benzyl - α cyano-, di Et ester, 1803¹
- α cyano γ methyl - β phenyl, di Et ester, 82¹
- 3 Indolebutyric acid, 2-carboxy-, di Et ester, 514¹
- C₁₇H₁₇N₃O₅ 3 Indolepropionic acid, 2-carboxy 7 methoxy-, di Et ester, 4880¹
- C₁₇H₁₇N₃O₅ Caprophenone, β - 2 furyl-, semi carbazon, 5124¹
- Guandine, α γ -di β -phenethyl-, 3089¹
- C₁₇H₁₇N₃O₅ Camphoramic acid, 4' methoxy 2',6'-dimutro-, 2711¹
- C₁₇H₁₇N₃O₅ Biurea, 2 thio β - α toluene 1-(3,4-xylyl), 3634¹
- C₁₇H₁₇N₃O₅ Theobromine, 1 (β β - phenet idimethyl) 1031¹
- C₁₇H₁₇N₃O₅ Compd., m 126°, from N,N' - dicarboxy 3,6 - endomethylenetetra hydro-pyridazine, 1807¹
- C₁₇H₁₇AsI Benzylidimethylphenylarsonium iodide, 282¹
- C₁₇H₁₇AsO₅ Phenarsazone, 1,6 dihydro - 1 isosanyl, 1,1-dihydroxy deriv., 1831¹
- C₁₇H₁₇BrN Benzylmethylphenylpropylammonium bromide, 1502¹
- C₁₇H₁₇BrN₃ Isopropyl, 5 - bromo - 2,5 bromomethylpropyl 2 pyrrolimethylene) methylpropyl, and *HBr*, 3009¹, 3010¹
- Isopropyl, 2 - (5 - bromo - 3 ethyl - 4 methyl - 2-pyrrolimethylene) 5-(bromomethyl) 3-methyl 4-propyl, *HBr*, 1257¹
- C₁₇H₁₇IN Benzylidimethylphenylammonium iodide, 282¹
- Trimethyl(β - phenethylphenyl)ammonium iodide, 100¹
- C₁₇H₁₇N₃ Aniline, β β' methylenebis[N, N dimethyl], 1501¹
- C₁₇H₁₇N₃O₅ Hydrazine, 2- β -cyanyl-, benzoate, 1227¹
- Nucleic, 705⁹
- 3 - Pyrrolecarboxylic acid, 2 (5 methyl 3 - propyl - 2 isopropylidene-methyl) 4-propyl, *HBr*, 3010¹
- 3 Pyrrolepropionic acid, 2 (4 ethyl - 3 methyl - 2 isopropylidene-methyl) 4,5 dimethyl-, *HBr*, 111¹
- C₁₇H₁₇N₃O₅ Benzylmethylphenylpropylammonium nitrate, 1502¹
- Isopropylpropionic acid, 2 - (ethyl - 5 hydroxymethyl 2 - pyrrolimethylene) dimethyl- 4008¹, 4009¹
- Neotantholurubic acid, Me ester 1837¹
- Nucleic, dihydro-3,2-diketo-, 4278¹
- , 2 - keto - 3 - hydroxy-, and perchlorate 706⁹
- Nucleic, 2-hydroxy-, 705⁹
- 3 - Pyrrolecarboxylic acid, 2 - (4 - ethyl 3,5-dimethyl 2-isopropylidene-methyl) 5 hydroxy - 4 - methyl, Et ester, 4010¹
- Xantholurubic acid, 4008¹
- C₁₇H₁₇N₃O₅ Nucleic, 2 keto-, hydrate, 705⁹

- C₁₁H₂₃N₂O₂ Camphoramic acid, methylurea 2711³
 Malonic acid, allyl - β - phenylcarbamido di Et ester, 1423³
 Nucleonic aldehyde, 3 keto 2 hydroxy salt 706³
 Nucine 2 keto-3 hydroxy-, hydrate, 3345³
 C₁₁H₂₃N₂O₂ Camphoramic acid 2 methoxy urea-, 2711³
 Cyclohexanol, 2 butyl , 3,5 diastrobenzoate, 1505³
 Nucleonic acid 3 keto-2 hydroxy and per chlorate, 706³
 Nucine, diketo- dihydrate "Oa", 3345³ 4275³
 C₁₁H₂₃N₂O₂ Carbamic acid phenethylidino-, phenethylamine salt, 4241³
 C₁₁H₂₃N₂O₂ Alanine V [V (V hippuryl alanyl)glycyl] 2741³
 C₁₁H₂₃N₂O₂ Pyrrole 2 methyl 3 4 dipropyl picrate, 3010³
 C₁₁H₂₃O₂ 1,3 Cyclopentanediols, 2 amyl 5 phenyl, 657³
 Linalool benzoate 3311³
 C₁₁H₂₃O₂ 1,3 Indandione, 2 - heptyl 4 hydroxy - 7 - methyl , 2715³
 C₁₁H₂₃O₂ Spiro(cyclopentane 1,2 indan) 2 5 - dicarboxylic acid hexahydro 3 4 diketo- di Me ester 3335³
 C₁₁H₂₃BrN₂O₂ Nucleonic acid 3 bromo 2 keto dihydro- 4275³
 C₁₁H₂₃BrN₂O₂ Tyrosine V (a bromosuccinyl)urea-, Et ester 2694³
 C₁₁H₂₃BrO₂ Pelargonic acid β bromophenacyl ester 1820³
 C₁₁H₂₃ClN₂ Isopyrrole 2 [chloro(ethylidimethyl 2 pyrrolyl)methylene]ethyl dimethyl-, and HCl 5900³
 C₁₁H₂₃NO m Anisidine N 2 camphanyldene- 940³
 Base b₁ 143-5° from ketone formed from Me lupinate and PhMgBr, 4004³
 Benzamide, N-3-carvomenthyl-, 1234³
 2 Indanacetamide 3a 4 5 6 7,7a hexahydro-, 3333³
 Trimethylphenylammonium 2 4-dimethyl phenoxide 4242³
 C₁₁H₂₃NO₂ Tropine, hydrocinnamate 5429³
 C₁₁H₂₃NO₂ (See also Atropine Hyoscyamine)
 Camphoramic acid methyl-, 2711³
 C₁₁H₂₃NO₂ α Camphorsulfonotoluene, 3322³
 C₁₁H₂₃NO₂ Atropine N-oxide, 1289³
 Camphoramic acid methoxy 2711³
 Hyoscyamine N-oxide 1289³
 Stemonine 4551³
 C₁₁H₂₃N₂O₂ Nucleonic aldehyde 3 keto 2 hydroxy, oxime, HBr, 706³
 C₁₁H₂₃N₂O₂ Alanine N - [N (N phenyl carbamylalanyl)glycyl]glycyl] 2741³
 Alanine, N [VI N (N phenylcarbamylglycyl)alanyl]glycyl] 2741³
 Glycine, N - [N (N phenylcarbamylalanyl)glycyl]alanyl] 2741³
 C₁₁H₂₃ Compd. formed by hydrogenation of a compd., m 36-7° 1232³
 C₁₁H₂₃BrNO₂ Glucosamine, N - (α bromopropionyl)tetraacetyl-, 3965³
 C₁₁H₂₃N₂ Isopyrrole, 2 (3 5 dimethyl 4 propyl 2 pyrrolylmethylene) 4 ethyl 3 methyl, -HBr, 1257³
 Isopyrrole, 4 - ethyl - 2 - (4 - ethyl - 3,5 - dimethyl 2 pyrrolylmethylene) 3 5 dimethyl, HBr, 3356³
 —, 5 methyl 2 (5 methyl - 3 propyl 2 pyrrolylmethylene) 3 propyl, HBr, 3010³
 C₁₁H₂₃N₂O Isopyrrole 4 ethyl 2 (3 ethyl 5 methoxy 4 methyl 2 pyrrolylmethylene) 3 5 dimethyl, 2433³
 Ketone bis(ethylidimethyl 2 pyrrolyl), 5899³
 — 4 ethyl 3 5 dimethyl 2 pyrrolylmethyl 3 4 5 trimethyl 2 pyrrolyl, 2009³
 Lupinane 11 amino- Br deriv., 3007³
 C₁₁H₂₃N₂O₂ Apocynidine N acetyl, per chlorate 4003³
 C₁₁H₂₃N₂O₂ Barbituric acid 4005³
 Nucleonic acid 3 hydroxy 2 ketodihydro and salt 4275³
 3 Pyrrolepropionic acid (ethyl 5 hydroxymethyl 2 pyrrolylmethyl)dimethyl 4008³ 4009³
 C₁₁H₂₃O₂ Cinnamic acid, α methylheptyl ester, 1231³
 Menthol benzoate 3311³
 C₁₁H₂₃O₂ Benzoic acid α -mercapto- menthyl ester 4501³
 C₁₁H₂₃O₂ Malonic acid methyl(α -methylphenethyl) di Et ester 1232³
 Malonic acid 2 4 6 trimethylbenzyl di Et ester 5154³
 4 Octanol 2 methyl acid phthalate 4845³
 C₁₁H₂₃O₂ Benzoic acid α -sulfo- menthyl ester and K salt 4501³
 C₁₁H₂₃IN₂O₂ Apocynidine carboxy, meth iodide 4002³
 C₁₁H₂₃NO Benzamide, N-3 β menthyl 1233³
 C₁₁H₂₃NO₂ Cinnamic acid β (butylethylamino) ethyl ester HCl P 5512³
 Cyclohexanol 2 butyl carbamate, 1805³
 C₁₁H₂₃NO₂ Novatropine 379³
 C₁₁H₂₃NO₂ Camphorsulfonic acid toluene salt 3322³
 C₁₁H₂₃N₂O₂ Glycine N (N phenylcarbamyl) leucyl ethyl ester 2742³
 C₁₁H₂₃N₂O₂ Heptylamine, picric acid, 701³
 Semicarbazone of aldehyde from carboxy apocynidine di HBr, 707³
 C₁₁H₂₃BrO₂ 2 2 Indandiacetic acid α α' dibromohexahydro-, di-Et ester, 3334³
 C₁₁H₂₃ClNO₂ β Chloroethyltrimethylammonium cinnamate P 2814³
 1 Decanol 10-chloro-, carbamate, 5395³
 C₁₁H₂₃N₂ Indole, 5 β diethylaminoethyl 3 ethyl 1 methyl, P 5250³
 C₁₁H₂₃N₂O₂ Carbamic acid β -acetamido-, ester with 2-octanol 5404³
 C₁₁H₂₃N₂ Ketone bis(ethylidimethyl 2 pyrrolyl) hydrazone, 5899³
 C₁₁H₂₃N₂O₂ Pyrrolidine, 1 methyl 2,2 di propyl, picrate, 102³
 C₁₁H₂₃O₂ Xylenol, heptyl-, acetate, 929³
 C₁₁H₂₃O₂ Acetic acid (α -nonylphenoxy), 1229³
 C₁₁H₂₃O₂ Toluene-sulfonic acid menthyl ester, 4549³
 C₁₁H₂₃O₂ Δ^1 1,1,4 Butenetricarboxylic acid, 2 (carboxymethyl), tetra Et ester, 5399³
 C₁₁H₂₃BrO₂ 2,2 - Indandiacetic acid, α bromohexahydro-, di-Et ester, 3334³
 C₁₁H₂₃NO 1 - Piperid methanol α butyl α - phenyl-, HCl 4276³
 C₁₁H₂₃NO₂ Stemonidine, and HCl, 4551³
 C₁₁H₂₃ Hendecane, 1 phenyl-, 3469³
 C₁₁H₂₃N₂O Benzoic acid, α β bis(α - ethylpropyl)hydrazide, 2416³

- C₁₇H₈N₂O₂ (See also *Pantekins*)
 3 Pentanol 3 (diethylammonomethyl),
 carbamate 4525⁴
- C₁₇H₁₂N₂O₂ (4 Ethyl - 1 hydroxyhexyl)
 trimethylammonium picrate, 4525⁴
- C₁₇H₁₂O₂ Benzaldehyde, disoamyl acetal 1798¹
- C₁₇H₁₂O₂ Compd m 137-8°, from clove oil
 anhydride and Et₃N¹ 3638²
- C₁₇H₁₂O₂ Clove oil di Me ester 3655⁴
- 2 2 Indanacetic acid hexahydro- di Et
 ester 3313⁷
- C₁₇H₁₂O₄ 1 2 3 3 Pentacetetetracarboxylic acid,
 tetra Et ester 1803¹
- C₁₇H₁₂Br₂OP Phosphine diamyl *p* anisyl-,
 dibromide 283¹
- C₁₇H₁₂NO₄ 9 Fluorylamine, dodecahydro-, bis
 tetrates 511⁴
- C₁₇H₁₂N₂O₂ 2 Indanacetic acid, 2 acetoxy
 hexahydro- Et ester semicarbazone,
 333¹
- C₁₇H₁₂OP Phosphine, diamyl *p* anisyl-,
 and H₂C₄ compd 263¹
- C₁₇H₁₂P Dibutylmethyl 2 5 xylilphospho-
 num iodide 2702⁴
- Dusobutylmethyl 2 5 xylilphosphonium
 iodide 2702⁴
- C₁₇H₁₂P Dibutylmethyl 2 5 xylilphospho-
 num triiodide 2702⁴
- C₁₇H₁₂N₂O₂ Pyrimidine 5 *sec* butyl - 2,4,6
 tripropyl 4229¹
- C₁₇H₁₂N₂O₂ 3 Camphorsulfonic acid, Me ester,
 hexamethylenetetramine compd, 3322¹
- C₁₇H₁₂O₂ See *Schard*
- C₁₇H₁₂O₂ Orthoacetic acid phenyl-, Et di Bu
 ester 213⁴ Et dusobutyl ester, 213⁴
- C₁₇H₁₂O₂ Malonic acid, diethyl-, monomethyl
 ester 289¹
- C₁₇H₁₂BrO₂ 3 (1) Thiophenacetic acid, 1
 bromo 2,3,4,5 tetrahydro 2 methyl,
 methyl ester 3621¹
- C₁₇H₁₂N₂O₂ Leucine N (leucylpropyl), 2974⁴
- C₁₇H₁₂N₂O₂ 1 - Triazine hexahydro 1,3,5 -
 tripropyl, urate 4523¹
- C₁₇H₁₂Hg₂N₂O₂ Malonamide, α,α bis(chloro-
 mercury) N, N' diethyl-, 1219¹
- C₁₇H₁₂O₂ Butyric acid, α ethyl α -methoxy-,
 methyl ester, 289¹
- Caproic acid, α -methoxy-, 3 *p* methyl ester,
 6672⁴
- Furancarbalol, tetrahydro-, laurate, P 3666⁴
- C₁₇H₁₂BrO₂ Lauric acid, α -bromo-, isomyl
 ester 5663¹
- C₁₇H₁₂O₂ 2-Heptadecanone, 3979¹
- C₁₇H₁₂O₂ Margaric acid, 3920¹
- Palmitic acid Me ester, 277⁴
- C₁₇H₁₂O₂ 1,8,9,10-Phenanthrenetetracarboxylic
 dianhydride 3337⁴
- C₁₇H₁₂ClO₂ 11 α -Benzoxanthene-11-carboxylic acid,
 8,9,10-trichloro 12-keto-, 3397¹
- C₁₇H₁₂BrO₂ 1 2 - Benzanthrene 7,12-dione,
 8,11-dibromo-, P 213¹
- C₁₇H₁₂Br₂HgO₂ Ether, propargyl 2,4,6 - tri
 bromophenyl lig deriv., 1613¹
- C₁₇H₁₂ClO₂ 1 2 - Benzanthrene 7,12-dione,
 dichloro-, P 215¹, P 1099¹, 4578¹
- Naphthacenequinone, 1,4-dichloro-,
 5162¹
- C₁₇H₁₂O₂ 3a Benzol[1,2- β 5,4- β]bithiophene
 6,12-dione, 5167¹
- C₁₇H₁₂O₂ 3a Benzol[1,2- β 5,4- β]bithiophene
 6,12-dione, 3-hydroxy-, 5167¹
- C₁₇H₁₂O₂ Phenanthro[3,6- γ]furan - 4,11 -
 dicarboxylic acid, 1,3-dihydro - 1,3-
 diketone- 3337⁴
- C₁₇H₁₂BrN₂ Acenaphthoquinoxaline, 8-bromo-,
 1515¹, 2715¹
- C₁₇H₁₂ClN₂ Acenaphthoquinoxaline, 8-chloro-,
 2715¹
- C₁₇H₁₂ClO₂ 1,2-Benzanthrene - 7,12-dione,
 9-chloro-, 1242¹
- Naphthacenequinone, 2-chloro-, 5162¹
- C₁₇H₁₂ClO₂ 1,2-Benzanthrene - 7,12-dione,
 chlorohydroxy-, 4875¹
- Chloro deriv., m 165°, of compd m
 198°, 5415¹
- Naphthacenequinone, 1-chloro - 4-hy-
 droxy 5152¹
- C₁₇H₁₂ClO₂ 7-meso-Benzanthrene - 5-car-
 boxylic acid, 9-chloro - 6-hydroxy - 7-
 keto-, P 823¹
- 1,2-Benzanthrene 7,12-dione, 9(or 10)-
 chloro - 8,11-dihydroxy-, 4878¹
- Naphthacenequinone, 2-chloro - 1,4-
 dihydroxy-, 5163¹
- C₁₇H₁₂Br₂O₂ Quinone, 2,5-dibromo - 3,6-di-
 phenyl-, 3633¹
- C₁₇H₁₂Br₂O₂ Furano[3',4',5,10]anthracene - 12-,
 14-dione, 5,10-dibromo - 5,10,11,15-
 tetrahydro-, 3647¹
- C₁₇H₁₂BrO₂ Benzoic acid, 5-bromo - 2-(6-
 bromo - 2-hydroxy - 1-naphthyl)-, and
 Va soll, 1529¹
- C₁₇H₁₂Br₂ Fulvene 1,2,3,4-tetrabromo - 6,6-
 diphenyl-, 1238¹
- C₁₇H₁₂Br₂HgO₂ Ether, 2,4-dibromophenyl pro-
 pargyl, lig deriv., 1515¹
- C₁₇H₁₂ClO₂ Benzoic acid, 4,5-dichloro-2 naph-
 thyl-, 4878¹
- C₁₇H₁₂Cl₂NO₂ 1(2) - Naphthalene[Δ^1] -
 pseudoindoxyl, complex from SnCl₄, 103¹
- C₁₇H₁₂O₂ Benzanthrenedione, 1515¹
- Chrysenedione, 1515¹
- Naphthacenequinone, 3645¹, 5162¹
- C₁₇H₁₂O₂ Benzoic acid, α -(2-hydroxy - 1-
 naphthyl)-, lactone, 5415¹
- 1,2-Chrysenedione, 3-hydroxy-, 1515¹
- 4 - Chrysofluorene-4-carboxylic acid, 11-
 keto-, 4000⁴
- Compd, m 198°, from 2 naphthol and
 phthalic anhydride, 5415¹
- Furano[3,4',5,10]anthracene - 12,14-
 dione, 5,10-dihydro-, 3645¹
- Naphthacenequinone, 1-hydroxy-, 5162¹
- Per[1,8]Phthalyl 2 naphthol, 4515¹
- C₁₇H₁₂O₂ 2a - Thionaphthene-2-carboxylic acid,
 1-(1-thionaphthylcarbonyl)-, 5167¹
- C₁₇H₁₂O₂ 7-meso-Benzanthrene 5-carboxylic
 acid, 6-hydroxy 7-keto-, P 823¹
- 1,2-Benzanthrene 7,12-dione, dihydroxy-,
 3647¹, 3648¹, 4878¹
- 11 - α - Benzoxanthene-2-carboxylic acid, 12-
 keto-, 3987¹
- Naphthacenequinone, dihydroxy-, 3647¹,
 5162¹
- C₁₇H₁₂O₂ 3,2 - α - Anthraquinone - 9,11-
 dione, 1-hydroxy-, acetate, 2723¹
- C₁₇H₁₂O₂ 1,5 - Anthracenedicarboxylic acid,
 9-hydroxy-, lactone, anhydride with
 AcOH 9.03¹
- 1,2-Anthracenedicarboxylic anhydride, 10-
 hydroxy (?), acetate 9.04¹
- 1,2-Benzanthrene 7,12-dione, trihydroxy-,
 4878¹
- Naphthacenequinone, 1,2,4-trihydroxy-,
 5163¹

- C₁₈H₁₀O₄ 1,4 - Anthracenedicarboxylic acid, 9,10 dihydroxy -, mono - γ lactone, acetate 698¹
Pseudoanthrahydroquinone - 1,2 dicarboxylic acid, lactone, acetate, 949¹
- C₁₈H₁₀O₄ 1,8 9,10 Phenanthrenetetracarboxylic acid, and *Cu salt*, 3337²
- C₁₈H₁₀BrN₂O Acenaphthenequinone, 3 bromo-, phenylhydrazones, 1516¹
- C₁₈H₁₀BrO₂ 7 - *meso* - Benzanthrene, 2 bromo-3 methoxy, P 712¹
- C₁₈H₁₀ClO₂ 7 *meso* - Benzanthrene 2-chloro-3-methoxy, P 712¹
- C₁₈H₁₀ClO₂S Benzo[*b*]thiophanthrene 6 11 dione chlorodimethyl, 5163¹
- C₁₈H₁₀ClO₂ 2 Naphthoic acid, 3 β chloro benzoyl, 1242¹, 5162¹
- C₁₈H₁₀ClO₂ Quinizarin, 5 - chloro, diacetate, 3648¹
- C₁₈H₁₀NO₂ Benzacridinecarboxylic acid 294¹
1,2 - Benzanthrene 7,12 dione 9 amino 1242¹
Naphthacequinone 2 amino-, 5162¹
Naphthazoledione, phenyl, 294¹
Pseudosatin, 1 (1 naphthyl), 294¹
- C₁₈H₁₀NO₂ 5 6 Benzocinchoninic acid 3 (2 furyl), and *Cu salt*, 935¹
Naphthacequinone, 1 amino-4 hydroxy 5162¹
Nordetamine, *N* benzoyl, 297¹
- C₁₈H₁₀NO₂S Benzo[*b*]thiophanthrene 6 11 dione, 8-acetamido-, 5167¹
- C₁₈H₁₀NO₄ 7 - *meso* Benzanthrene 3 methoxy - 2 - nitro - P 712¹
Indeno[3 2 β]quinoline 1,2 7 8 bis-(methylenedioxy), 1253¹
- C₁₈H₁₀NO₄S Acetic acid, (1 cyano 2 anthra quinonylmercapto) Me ester 2723¹
- C₁₈H₁₀NO₄ 1 Indanone 4 5 methylenedioxy 2 - (6 - nitroperonylidene), 1253¹
- C₁₈H₁₀N₂O₂ Nicotinonitrile, 1,2 dihydro 2 keto - 6 - (β nitrophenyl) 4 phenyl, 2145¹
- C₁₈H₁₀N₂O₂S 2 Naphthol, 1 perymercapto, acetate, 3331¹
- C₁₈H₁₀NaO₂ Sodium deriv from compd to 198¹ and NaOH, 5418¹
- C₁₈H₁₂ Chrysene, 520¹
- C₁₈H₁₂Br₂O₂ Ti + 8H₂O, 3926¹
- C₁₈H₁₂Br₂O₂ Hydroquinone, 2,5 - dibromo 3 6-d phenyl 3635¹
- C₁₈H₁₂Br₂O₂S 2 - Thiophenecetic acid, 3 5(7) dibromo- α,α diphenyl, 2143¹
- C₁₈H₁₂ClNO₂ Oxamyl chloride, *N* naphthyl *N* phenyl 294¹
- C₁₈H₁₂Cl₂N₂O₂S β - Phenyleclediamine, *N* - (4 - chloro 2 - nitrophenylmercapto) - *N'* (4 chloro 2 nitrophenylsulfonyl) 289¹
- C₁₈H₁₂Cl₂N₂O₂S Benzenesulfonamide, *N*, *N'* - α (and β) - phenylenebis(4 chloro 2 - nitro-, 289¹
- C₁₈H₁₂CoO₂Ti + 8H₂O, 3926¹
- C₁₈H₁₂K₂O₂Si + 8H₂O, 3926¹
- C₁₈H₁₂K₂O₂Ti, 3926¹
- C₁₈H₁₂MgO₂Ti + 8H₂O, 3926¹
- C₁₈H₁₂MnO₂Ti + 8H₂O, 3926¹
- C₁₈H₁₂N₂ 3,3 Biquinoline, and salts, 5427¹
- C₁₈H₁₂N₂O Nicotinonitrile, 1,2 dihydro - 2 keto-4 6-diphenyl, 1528¹ 2145¹
Quaroline, 4 (4 - hydroxynaphthyl), P 216¹
- C₁₈H₁₂N₂O₂ Naphthacequinone 1,4 diamino, 5162¹
- C₁₈H₁₂N₂O₂S 1 bthalimide, *N* [(2 phenyl 4 thiazolyl)methyl] 902¹
- C₁₈H₁₂N₂O₂ Furo[3 4 β]pyridazine 1,4(2,3) dione 5,7 diphenyl 1826¹
- C₁₈H₁₂N₂O₂Ti + 8H₂O 3926
- C₁₈H₁₂O 7 *meso* Benzanthrene, methyl 512¹ P 1260¹
5(12) Naphthacequinone 3648¹
 β Naphthofuran 2 phenyl 4883¹
- C₁₈H₁₂O₂ 5(12) Naphthacequinone 12 hydroxy 3649¹
1 Naphthaldehyde 6 (α formylphenyl) 4000¹
Quinone 2 6-diphenyl 5409¹
- C₁₈H₁₂O₂ Furano[3 4, α 10]anthracene 12 14 dione 5 10 11 15 tetrahydro- 3646¹
Naphthoic acyl benzoyl, P 603¹ 1515¹ P 1631¹ 5162¹
- C₁₈H₁₂O₂ Benzic acid, α (2 hydroxy 1 naphthoyl), 5418¹
5(12) Naphthacequinone 1 4 12 trihydroxy 5162¹
1 Naphthoic acid, 6 (α carboxyphenyl) and *di K salt* 4000¹, 4001¹
Quinone 2 5 dihydroxy 3,6 diphenyl 3635¹
- C₁₈H₁₂O₂ Phenanthrenequinone 2,4-dihydroxy, diacetate, 1244¹
- C₁₈H₁₂O₂Rb₂Ti 3926¹
- C₁₈H₁₂O₂S 2 Naphthoic acid 3 β sulfobenzoyl 5162¹
- C₁₈H₁₂O₂TiZn + 8H₂O, 3926¹
- C₁₈H₁₂ClO₂S 1 Thiophenecarboxylic acid, 4 chloro 6 methyl 2 β tolyl 5163¹
- C₁₈H₁₂Cl₂N₂O₂ Pthalazine 4 acetic acid, 1 hydroxy 3 (2 6 dichloro 4' nitro phenyl) 1 3 dihydro Ac deriv, 42¹ 3¹
- C₁₈H₁₂N 3 4 Benzacridine, 12 methyl "04"¹
- C₁₈H₁₂ND α Benzocarbazole, 11 acetyl, 2722¹
- Fluoranthene, 3-acetamido-, 5163¹
- C₁₈H₁₂NO₂ Ketone, 8 hydroxy 5 - quinoyl methyl, benzoate, 272¹
Oxindole[3 2 β]phthalide, 1-ethyl, 294¹
Phenol, 4 nitro 2,6 diphenyl, 5409¹
- C₁₈H₁₂NO₂ Benzene 1 (β nitrophenoxy) 4 phenoxy, 1816¹
- 5(4) Oxazolone 4 hydroxybenzal 2 phenyl, acetate, 1508¹
-, 2 - phenyl 4 salicylal, acetate, 1508¹
- C₁₈H₁₂NO₂S 2 Thiophenecarboxylic acid, 1 [α (and β) - acetamidobenzoyl], 5167¹
- C₁₈H₁₂NO₂ 1 Indanacetic acid, 2,3 diketo-, 2-oxime, Br deriv, 5162¹
- C₁₈H₁₂N₂O₂ Pyrrolo[3 4 β]pyridazine - 1,4 - dione, 2,3 dihydro 5 7 diphenyl, 1826¹
- C₁₈H₁₂N₂O₂ Butyromitrile, α,β -diketo-, doxime di Br deriv, 3622¹
- C₁₈H₁₂N₂O₂S Cinnamotolide, α cyano 4,5 - methylenedioxy 2 nitro, 1253¹
- C₁₈H₁₂N₂O₂ Acenaphthene, picrate, 1816¹
- C₁₈H₁₂N₂O₂ Harman, picrate, 301¹
- C₁₈H₁₂ Benzene, α -diphenyl, 1717¹
Fulvene, 6,6 diphenyl, 1237¹
Phenanthrene, 2 - $\Delta^{1,2}$ butadienyl - (?), 291¹
-, 2 α - methyleneallyl (?), 291¹

- C₁₃H₁₄AsN Phenarsazone, 1,6 dihydro 1 phenyl 1831¹
- C₁₃H₁₄AsNO Phenarsazine 1,6 dihydro 1 phenyl, 1-oxide 1831¹
- C₁₃H₁₄AsN₂O₂S Benzimidazole, 5,5' arsenato[2 (carboxymethylmercapto)], and HCl 703¹
- C₁₃H₁₄BrO₂S Thioxanthone 4 bromo 1 hydroxy 2 methoxy diacetoborate, 2725¹
- C₁₃H₁₄Br₂O Spiro[cyclohexane-1,9' xanthene] 3 4 5 6 tetrol, di Br deriv, 3644¹
- C₁₃H₁₄BrNO₂S Benzenesulfonamide, p-(p bromophenoxy), 1816¹
- C₁₃H₁₄BrN₂O Triazene 1 (p bromophenyl) 3 3-diphenyl, 1-oxide 2126¹
- C₁₃H₁₄BrClNO₂ Quinolone, 3 (6-bromo-veratryl)-4-chloro- bromo deriv, 106¹
- C₁₃H₁₄ClNO₂Cinchophen β-chloroethyl ester, 4885¹
- C₁₃H₁₄ClN₂ Quinolone deriv, m 174¹ from α 3 dichloro p acetolide, 2130¹
- C₁₃H₁₄Cl₂O₂ Amisoyl chloride 3 3' (β,β dichloroethylidene)bis-, 5412¹
- C₁₃H₁₄CuN₂S₂ 3 Triazinemercaptan 4 amino 6 phenyl, Cu deriv, 1531¹
- C₁₃H₁₄K₂O₂ Spiro[cyclohexane 1,9' xanthene] 3 4 5,6 tetrol, tetra K deriv 3644¹
- C₁₃H₁₄N₂ Carbazole 1 amino-(U) P 716¹
- C₁₃H₁₄N₂O Isocyanic acid, 6 ethoxy 2 phenyl 4-quinolyl ester 4834¹
- Isomol gotin 1 1-dimethyl, 294¹
- 1 Naphthaldehyde 6 (o formylphenyl), dioxime 4000¹
- Naphthol, phenylazo, acetate 5151¹
- 2 5-Piperazinedione, 3,6-dibenzal, 1508¹
- C₁₃H₁₄N₂O₂ Furazan, 3,4 di p tolyl, 3338¹
- Glycine (2 phenyl 4 quinolylcarbonyl) 3000¹
- C₁₃H₁₄N₂O₂ Benzamide, V - (i hydroxy 1 naphthyl) - V methyl p nitro 2894¹
- C₁₃H₁₄N₂O₂ Cinchoninyl amide, 6 ethoxy 2 phenyl, 4884¹
- Triazene, 3 (1 acenaphthenyl) 1 (p nitrophenyl), 3988¹
- C₁₃H₁₄N₂O₂ Pyridazo[4 5 - v]phthalazine 1,4 6 9(2,3,7,8) tetrone, 2 3 7 8 tetraacetyl, 1821¹
- C₁₃H₁₄N₂O₂S 1 Picrylpyridinium p toluene sulfonate, 2727¹
- C₁₃H₁₄O Ketone 4 methyl 1 naphthyl phenyl P 1684¹
- Naphthalenol, 5,12 dihydro 3649¹
- Phenol 3 5-diphenyl, 332¹
- C₁₃H₁₄O₂ Ketone 3 - hydroxy 2 naphthyl tolyl P 55¹
- 2 Naphthol 8-methyl, benzoate 1741¹
- 1 2-Pyrone, 4 phenyl-6 p-tolyl, 2145¹
- C₁₃H₁₄O₂S 2 Thiophenecetic acid α α di phenyl, and Ag salt, 2143¹
- C₁₃H₁₄O₂ Glycolic acid, 1 naphthylphenyl 2994¹
- Ketone amisyl 3 hydroxy 2 naphthyl P 55¹
- Phenol p-(p phenoxyphenoxy), 1816¹
- o Toluic acid α - (2 hydroxy 1 naphthyl), 5415¹
- C₁₃H₁₄O₂ Phthalo[5,10]anthracene 11,12 dicarboxylic acid, 5 10-dihydro-, 3646¹
- Flavone, 7 hydroxy - 3 methyl -, acetate, 4231¹
- 17 Phenanthrenedicarboxylic acid, di Me ester, 2136¹
- Phenol, p, p (p-phenylenedioxy)bis-, 1816¹
- C₁₃H₁₄O₂S 2 - Thionaphthencarboxylic acid, 1 benzoyl-5-ethoxy, 5165¹
- C₁₃H₁₄O₂ Phthalic acid, 3 phthalidyl, di Me ester, 5418¹
- C₁₃H₁₄As Arsenic triphenyl-, 5530¹
- C₁₃H₁₄BN₂ 1173¹
- C₁₃H₁₄BO₂S Thioxanthone, 1 hydroxy 4 methyl, diacetoborate, 2724¹
- C₁₃H₁₄Bi Bismuthane, triphenyl-, 5530¹
- C₁₃H₁₄BrClNO₂ Quinolone 3 (6 bromoveratryl)-4-chloro-, 106¹
- C₁₃H₁₄BrN₂O₂ Phthalazine 4 acetic acid 1 hydroxy 3 (2',6' dibromo - 4' nitrophenyl) 1,3 dihydro, Et ester, 4273¹
- C₁₃H₁₄ClN₂O₂ Phenol p - 1 naphthylazo, compd with AcCl, 3322¹
- C₁₃H₁₄ClO₂ Amisic acid, 3,3' - (chlorovinylidene)bis-, 5412¹
- C₁₃H₁₄CHN₂O₂ Phthalazine 4 acetic acid, 1-hydroxy 3 (2,6' - dichloro 4' nitrophenyl) 1,3 - dihydro, Et ester, 4273¹
- C₁₃H₁₄KO₂ Potassium acetylacetylloxonium acetylacetylolate, 3774¹
- C₁₃H₁₄N Triphenylamine, 2713¹, 5830¹
- C₁₃H₁₄NO (See also Tropenol)
- α Benzocarbazole, 1 - acetyl 5,6 - dihydro-, 1523¹
- 2 Pyridol, 4 phenyl 6 p tolyl, 2145¹
- 2(1) Pyridone, phenyl p-tolyl, 1528¹, 1529¹
- C₁₃H₁₄NO₂ Acetamide α 1 (and 2) naphthoxy-, 3339¹
- Aniline, p (p phenoxyphenoxy) 1816¹
- Cinchophen, 6,8-dimethyl-, P 5513¹
- Indenoquinoline, dimethoxy, 106¹ - HCl, 1253¹
- 6 - Isoindeno[2 3 γ]quinoline, 9 10 - di methoxy 106¹
- C₁₃H₁₄NO₂S Fluoranthenesulfonamide V ethyl, 5163¹
- 2 - Thiazolecarbinol, α methyl 4 phenyl, benzoate, 2722¹
- C₁₃H₁₄NO₂ Acetic acid, [p (2 naphthylamino) phenoxy], P 1684¹
- Acrylonitrile β (i hydroxy - o amisyl) α-phenyl, acetate 2710¹
- α 6 - Benzocinchoninic acid, 3 (2 furyl) 1 2,3,4-tetrahydro-, 955¹
- Cinchophen, 6 ethoxy, 4884¹
- , 6-hydroxy, Et ester, 4883¹
- Glutaconimide, β p-amisyl V phenyl, 4882¹
- C₁₃H₁₄NO₂S Benzenesulfonamide p phenoxy, 1816¹
- C₁₃H₁₄NO₂ Cinchophen, 2,4 - dihydroxy, Et ester, 700¹
- C₁₃H₁₄NO₂S Acetic acid (1 amino - 2 anthraquinonylmercapto), Et ester, 2723¹
- C₁₃H₁₄NO₂ 1 Indanone 4,5-dimethoxy 2 (o-nitrobenzyl), 1253¹
- 1 Indanone, 2 (6-nitroveratryl), 1253¹
- Malonic acid, o-methyl-α piperonylidene-, 5671¹
- 3 - Quinolonecarboxylic acid, 2 - p amisyl 1 4 - dihydro 4 - keto - 6 methoxy 1830¹
- C₁₃H₁₄N₂O 2 - Pyrrolealdehyde, 1 benzoyl phenylhydrazonate, 2997¹
- Triazene, 1,3,3 triphenyl 1 oxide, 2126¹
- C₁₃H₁₄N₂O₂ Cinchoninamide, N - (carbamyl methyl) 2 phenyl, 3000¹

- Cinchoninic acid, 6 - hydroxy, α methyl benzaldehyde, 954¹
- 3 - Quinoxaline, 2 - amino - 6,7 di methoxy, 1253¹
- C₁₁H₁₁N₃O₄ Urea, (6 - methoxy - 2 phenyl 4 quinolylicarbonyl), 4883¹
- C₁₁H₁₁N₃O₄ 1 - Naphthylamine, 2,4 - dimethoxy *N* phenethyl, 5405¹
- C₁₁H₁₁N₃O₄ Cinnamamide, α cyano 4,5 dimethoxy 2 nitro, 1253¹
- C₁₁H₁₁N₃O₄ Benzo[*c*]cyclopent[*g*]indole 7(8) carboxylic acid, 9,10 - dihydro 5(?) nitro-, Et ester, 1523¹
- C₁₁H₁₁N₃O₄ Naphthalene, dimethyl, picrate 1816¹
- Naphthalene ethyl, picrate 944¹ 1815¹ 4544¹
- C₁₁H₁₁N₃ Triazene 1 phenyl 3 (phenylazo phenyl), 1220¹
- C₁₁H₁₁O₄P Phenyl phosphate 3182¹, 3625¹
- C₁₁H₁₁P Phosphine, triphenyl, 5830¹
- C₁₁H₁₁Sb Sublime, triphenyl, 5830¹
- C₁₁H₁₁S Dunsene, 3988¹
- 1,3,5-Hexatriene, 1,6-diphenyl-, 1719¹
- C₁₁H₁₁AsNO₃ 2(1) Pyridone, 3 - [bis(phenyl mercapto)aryl] 1 methyl-, 4268¹
- C₁₁H₁₁AsN₃O₄ Benzeneacetic acid, β β (4,6 dihydroxy *m* phenylenedisazo)bis- 927¹
- C₁₁H₁₁AsN₃O₄ Benzimidazole, 5,5 arsenobis 2 (carbamylmethylmercapto), 703¹
- C₁₁H₁₁AsO₄ Sparo[cyclohexane 1,9 xanthene] 3',8'-diol, Ba deriv, 3644¹
- C₁₁H₁₁BrNO₃ 4 - Quinolol, 3 - (6 bromo veratryl), 106¹
- C₁₁H₁₁BrNO₃ Acenaphthene-sulfonic acid bromo, PhNH₂ salt 1518¹
- C₁₁H₁₁BrN₃O Oxindole, 5,7 - dibromo 3 β dimethylaminobenzal 1 - methyl - 203¹
- C₁₁H₁₁BrO₄ Spiro[cyclohexane 1,9 xanthene] 3' 6'-diol, dibromo deriv, 3644¹
- C₁₁H₁₁ClNO₄ Quinolone, 4 chloro 3 veratryl 106¹
- C₁₁H₁₁ClO₄ Adipyl chloride, β γ -diphenyl, 98¹
- C₁₁H₁₁ClO₄ Acetoacetic acid, α γ bis(β -chlorophenyl), Et ester, 2987¹
- C₁₁H₁₁ClO₄ Amino acid, 3,3 - (β , β dichloro-ethylidene)bis-, 5412¹
- C₁₁H₁₁Cl₂ 2,4 Hexadiene 3,4 duodo 2,5 diphenyl, 2713¹
- C₁₁H₁₁K₂O₄ Spiro[cyclohexane 1,9' xanthene] 3',6'-diol, di K deriv, 3644¹
- C₁₁H₁₁N₃ 1 Cyclopenta[*g*]quinoline 9 amino 2,3 - dihydro, and HCl, 3345¹
- C₁₁H₁₁N₃O α Benzocarbazole, 1 acetyl 5,6 dihydro, oxime 1523¹
- Isodoloneaphthimidazole, hexahydro, 701¹
- 1,4 Naphthoquinone, 2,5 - dimethyl, phenylhydrazine, 650¹
- C₁₁H₁₁N₃O₄ Cinchonamide, *N* - β hydroxy ethyl-2 phenyl, 4883¹
- β Cinnamotofuene, α cyano *m* methoxy, 1253¹
- o* - Phenylenediamine, 4 (β - phenoxy phenoxy), 1810¹
- 3,5 Pyrazoledione 4 isopropylidene 1,2 diphenyl-, 2145¹
- C₁₁H₁₁N₃O₄ Cinnamamide, α - cyano - 3,4 dimethoxy, 1253¹
- 4 - Quinolonecarbamate acid, 6 - hydroxy - 2 phenyl, Et ester, 4884¹
- C₁₁H₁₁N₃O₄ Benzo[*c*]cyclopent[*g*]indole 7(8) carboxylic acid, 9,10 - dihydro 5(?) nitro-, Et ester, 1523¹
- Glyoxime, dimethyl-, di Ba deriv, 80¹
- , diphenyl-, diacetyl deriv, 4767¹
- C₁₁H₁₁N₃O₄ α -Naphthol orange, dimethyl 2094¹
- α Naphthol orange ethyl, 2993¹
- 2 Naphthol 3 sulfonic acid, 1 - xylilazo Na salt 2138¹
- C₁₁H₁₁N₃O₄ Meccoma, 2 (2,5 dimethoxy 4 nitrophenyl) 3 nitro- 4519¹
- C₁₁H₁₁N₃O₄ Benzenesulfonic acid 2 (7 dimethylamino 1 naphthylazo) - 5 nitro Na salt 4549¹
- Benzenesulfonic acid, β (β nitrophenyl azo), PhNH₂ salt 287¹
- C₁₁H₁₁N₃O₄ Quinolone 2 propyl picrate 1829¹
- C₁₁H₁₁N₃m Phenylenediamine 4,6 bis(phenyl azo) 3343¹
- C₁₁H₁₁N₃O₄ Cystine, *N* *N* bis(2,4-dinitro phenyl)-, 401¹
- C₁₁H₁₁O Ether, benzyl 1 naphthylmethyl, P 1841¹
- C₁₁H₁₁O₃ Schcol triphenyl 4535¹
- C₁₁H₁₁O₄ 9 Anthrol, dimethyl acetate 2904¹ 3646¹ 4547¹
- Ethano[5]10anthracene 11 carboxylic acid 5,10 dihydro 12 methyl 3046¹
- C₁₁H₁₁O₄ γ Pentaenoic acid α benzyl β keto- δ -phenyl 4530¹
- Succinic anhydride α β dibenzyl, 2135¹
- C₁₁H₁₁O₄ 9 Anthrol dimethoxy acetate 1519¹ 1520¹
- 4 Chromanone 3 veratral 1534¹
- Flavone, 5,7 dimethoxy 3 methyl 4250¹
- Isobavone 4,7 dimethoxy 2 - methyl 3327¹
- C₁₁H₁₁O₄ 4 Chromanone 3 (3 hydroxy amsyl) 7 methoxy 1534¹
- 4 Chromanone 7 hydroxy 3 veratral 1534¹
- Coumano 3 β amsyl 5,7 dimethoxy 4541¹
- Dimethyl ester, *m* 150-6° of ketodibasic acid *m* 304-5° 1232¹
- Phthalide 6 methoxy 2 veratral, 5158¹
- C₁₁H₁₁O₄ Retenequinonesulfonic acid, K salt 513¹
- C₁₁H₁₁O₄ Anthraquinone 2,3,6,7 tetra methoxy, 934¹ 4538¹
- 4 Chromanone, 7,8 dihydroxy 3 veratral, 1534¹
- Phenanthrenequinone tetramethoxy, 1241¹
- Binomenolquinone dimethyl, 4551¹
- C₁₁H₁₁O₄ 2,2,3 Biphenyltricarboxylic acid 4(ω -hydroxyisopropyl), 2136¹
- C₁₁H₁₁AsN₃O₄ Arasnic acid, *N* (*N* 6 methoxy 5 quinolyglycyl), nitroso deriv, 3999¹
- C₁₁H₁₁AsO₄ Arsine, triphenyl, dihydroxide, 1831¹
- C₁₁H₁₁BrN₃O Oxindole, 5 - bromo - 3 - β - di methylaminobenzal - 1 - methyl, 293¹
- C₁₁H₁₁BrN₃O Phenethylamine, *m* - bromo - *N* (3,4 dimethoxy 2 nitroisopropylidene) 4552¹
- C₁₁H₁₁BrN₃O Isoquinoline, 1 (bromomethyl) 3,4 - dihydro 6,7 dimethoxy, picrate, 1530¹
- C₁₁H₁₁BrN₃O₄ 1 Phthalanacetic acid, 2

- (4 amino 2,6 dibromophenyl) 1,2,3, 4 tetrahydro 4 hydroxy, Ac deriv, 4273¹
- C₁₅H₁₁Cl Retene chloro-, 513¹
- C₁₅H₁₁ClN₃O Indole, 1 *m* chlorobenzoyl - 3 (δ methylaminoethyl), 3002¹
- C₁₅H₁₁ClN₃O Isoquinoline 1 (chloromethyl) - 3,4 dihydro 6,7 dimethoxy, picrate, 130¹
- C₁₅H₁₁ClO₃ Retenesulfonylchloride 513¹
- C₁₅H₁₁ClN₂O₄ 1 Phthalazonesuccinic acid, 2 (4 amino 2,6 dichlorophenyl) 1,2,3,4-tetrahydro-4-hydroxy, Ac deriv 4273¹
- C₁₅H₁₁ClN₂ Compd in 272¹, from α-chloro-β acetotoluene 2430¹
- C₁₅H₁₁IN₃O₃ 5 Methoxy 2 methyl 1 [2 methyl 1(2) benzothiazolylidene] methylbenzothiazolum iodide 5170¹
- C₁₅H₁₁IO Furan 2,5 dihydro 3 iodo 2,5 dimethyl 2,5-diphenyl 2713¹
- C₁₅H₁₁NO α Benzocarbazole, 11 acetyl 5,6,6a,11a-tetrahydro- 5674¹
- Fluoranthene, 3 acetamidotetrahydro, 5153¹
- Naphthylamine *N* β methoxybenzyl, 1817¹
- C₁₅H₁₁NO₂ Benzo[*c*]cyclopent[*b*]indole 7(8) carboxylic acid, 9,10 dihydro -, Et ester, 1522¹
- C₁₅H₁₁NO₂ Chalcone, 4' methoxy, oxime Ac deriv 1819¹
- Chalcone 2,4,6' trimethyl - 3 - nitro -, 3642¹
- Cinnamic acid, α - benzamide -, Et ester, 2143¹
- Fukatsene, 3654¹
- 4-Quinolone 3 veratryl, 106¹
- 4(1) Quinolone, 2,3 dihydro 3 veratral 106¹
- C₁₅H₁₁NO₂S 1 - Acenaphthenesulfonic acid, PhNH₂ salt, 5419¹
- C₁₅H₁₁NO₂ 1 Butanol, 2 - benzal, β nitro benzoate, 2708¹
- Glutaconamic acid, β β amyl-, 4852¹
- Laurepukine, 3653¹, 3654¹
- Malonanilic acid, α - amyl o methyl, 5671¹
- C₁₅H₁₁NO₂ Malonanilic acid, α-methyl-α pper onyl-, 5671¹
- Malonanilic acid α-veratral, and Ag salt, 5671¹
- C₁₅H₁₁NO₂S 2 - Anthraquinonesulfonic acid, diethylamino-, and Na salt, 5421¹
- C₁₅H₁₁NO₂S o - Toluenesulfonic acid (4 hydroxy - 3 - quinolyl) 4,5 - dimethoxy, 106¹
- C₁₅H₁₁NO₂ Meconin, 2 - (2,5 - dimethoxy - 4 nitrophenyl), 4519¹
- Meconin 2 - (2,5 - dimethoxyphenyl) 3 nitro-, 4519¹
- C₁₅H₁₁NO₂S 1,7 - Anthraquinonesulfonic acid, 4-diethylamino-, 5421¹
- C₁₅H₁₁N₂ Pyrazole, 4 benzalmino 3,5 dimethyl 1 phenyl, 1523¹
- Quinaldine, α - (β dimethylaminophenylamino), 4625¹
- Quinolone, 6 (β dimethylaminobenzal amino), 4625¹
- C₁₅H₁₁N₂O Pyrazole, 4 benzamide 3,5 dimethyl-1 phenyl, 1523¹
- C₁₅H₁₁N₂O₃ 1,4,3 Isothiazidine, 2 - amino β-β tolyl Ac deriv, 1532¹
- C₁₅H₁₁N₂O₂ Cinchophen, 6 - ethoxy -, hydrazide, 4884¹
- C₁₅H₁₁N₂O₂ Indole, 3 - (β - methylaminoethyl) - 1 β nitrobenzoyl, 3002¹
- C₁₅H₁₁N₂O₂S Benzenesulfonic acid, β (4 - dimethylamino - 1 - naphthylazo) -, Na salt, 4542¹
- Benzenesulfonic acid, β-phenylazo-, PhNH₂ salt, 287¹
- C₁₅H₁₁N₂O₂ 2,9 - Pyridindole, 1,2,3,4 tetrahydro-5-methoxy, and picrate, 361¹
- C₁₅H₁₁ 1,5-Hexadiene, 1,6-diphenyl, 1799¹
- C₁₅H₁₁AlN 657¹
- C₁₅H₁₁AsN₂O₂ Arsanilic acid, *N* - (N - 2 - methyl 6-quinolylglycyl) -, 3999¹
- C₁₅H₁₁AsN₂O₂ Arsanilic acid, *N* - (N - 6 - methoxy 5 quinolylglycyl) -, 3999¹
- C₁₅H₁₁BrN₂O Oxindole, 5 - bromo - 3 (β dimethylaminophenylamino) - 1 - ethyl -, 293¹
- C₁₅H₁₁BrN₂S Benzo 1,3,6 - thiadiazepine, 4 - (allylamino) - 2 (bromomethyl) - 1,2 dihydro 2 - phenyl -, 4266¹
- C₁₅H₁₁ClN₂ Quinaldine, 4 - amino - 3 chloro α-dimethylamino-, 2430¹
- C₁₅H₁₁ClN₂O₂ Anisamide, 3,3' (β,β-dichloroethylidene)bis-, 5412¹
- C₁₅H₁₁CuO₂ Peonol, Cu salt, 2131¹
- C₁₅H₁₁N₂ Quinolone, 4 amino 2 - ethyl - 3 methyl, and HCl, 2430¹
- C₁₅H₁₁N₂O Indole, 3 (β - benzamidoethyl) - 1 - methyl, 3002¹
- Indole, 1 benzoyl - 3 - (β methylaminoethyl) -, 3002¹
- C₁₅H₁₁N₂O₂ 5-Acridinecarbamate, Bu ester, 4271¹
- Cinnamaldehyde, α ethyl - 3,4 - methylene-dioxy, phenylhydrazones, 1230¹
- Cyclohexanecarboxylic acid, 2 (2 naphthimidozyl), 701¹
- Phthalimide, *N* - [2(or 1) - amino - 1(or 2) naphthyl]hexahydro-, 701¹
- 1 Propanol, 3 - (3 indyl) -, carbamate, 514¹
- C₁₅H₁₁N₂O₂S 2(1) - Thionaphthenone, 1 - (β dimethylaminophenylamino) - 5 ethoxy -, 5165¹
- C₁₅H₁₁N₂O₂ Phthalimide, *N* - [β - hydroxy γ - (N methylamino)propyl] -, P 1336¹
- C₁₅H₁₁N₂O₂S Sulfanilic acid, *N* phenyl, amine salt, 1503¹
- C₁₅H₁₁N₂O₂ Anthranilic acid, *N* isobutyl 5-nitro-, benzyl ester, 4244¹
- C₁₅H₁₁N₂O₂Oxamide, β,β'-diacetamido-, 1504¹
- C₁₅H₁₁N₂O₂ 2 Naphthylamine, 3,4 dihydro - *N* - *N*-dimethyl, picrate, 2139¹
- C₁₅H₁₁N₂O₂ 1 Butanol, 4-(3-andyl), picrate 514¹
- C₁₅H₁₁N₂O₂ 2(3) - Thiazolone, 4 β - tolyl -, 4 tolylthiosemicarbazone 1532¹
- C₁₅H₁₁N₂ Quinolinedamine, *N*, *N*' - bis(2,5 disubstituted phenyl), 926¹
- C₁₅H₁₁N₂O Acetyl deriv, m. 210°, α tempd m 208°, 5423¹
- C₁₅H₁₁N₂O₂ Peonol, Ni salt, 2131¹
- C₁₅H₁₁O Chalcone, β-ethyl-α methyl, 3313¹
- Δ¹-3-Hexenone, 1,6 diphenyl, 4550¹
- Δ¹-2 - Pentenone, 4 - methyl - 1,5 - di-phenyl-, 3313¹
- Retenol, 513¹
- C₁₅H₁₁O₂ Δ¹-3 Hexenone, 6 - phenyl - 1 salicyl-, 4550¹
- 3 Hexene - 2,5 diol, 2,5 - diphenyl -, 2713¹

- C₁₃H₁₅O₃S Acetophenone, α α' - thioisopropyl methyl-, 4879¹
- C₁₃H₁₅O₃ Acetoacetic acid, α , γ -diphenyl, Et ester, 298²
- Spuro[cyclohexane - 1,9' - xanthene] 3',6' diol, 3644³
- Valerophenone, β -hydroxy-, benzoate, 1228⁴
- C₁₃H₁₅O₃S Retenesulfonic acid, and salts, 513⁵
- C₁₃H₁₅O₃ Adipic acid, β , γ -diphenyl, 98⁶
- Isocavitelol, methoxy, benzoate, 4866⁷
- Isoeugenol, methoxy, benzoate, 4866⁸
- Phenol, 2 (methoxymethoxy)propenyl-, benzoate, 5409⁹
- Succinic acid, α , β -dibenzyl, 2135¹⁰
- C₁₃H₁₅O₄ Anhydrophyllodulcic acid, dimethyl, 3979¹¹
- 1,9,10 Anthracinol, 5,6,7,8 tetrahydro-, diacetate, 3993¹²
- Anthrone, 2,3,5,7 tetramethoxy-, 934¹³
- Benzoic acid, 2 - (3,4 dimethoxyethyl) 6 methoxy-, 5155¹⁴
- 4 Chromanone, 3 - (3 hydroxy 4 - methoxybenzyl) 7 methoxy 1534¹⁵
- Isoocoumarin, 3 (3,4 - dimethoxyphenyl) 3,4 dihydro-8-methoxy-, 5155¹⁶
- Isophthalic acid, 4 - methoxy 6 methyl 2 phenyl, mono Et ester, 3327¹⁷
- Phthalide, 6 methoxy 2 veratryl-, 5155¹⁸
- Phylodulcin, di Me ether, 3979¹⁹
- Propiophenone, 4 hydroxy 2,6-dimethoxy, benzoate, 4250²⁰
- Spuro[cyclohexane 1,9' xanthene] 3,4', 5',6' tetrol, 3644²¹
- C₁₃H₁₅O₃S 2 Anthracenesulfonic acid, 9,10-dithioxy-, 5420²²
- C₁₃H₁₅O₃ β , β Euphenol, bis(ethylcarbonate), 4253²³
- 5,5 Biveratraldehyde 1408²⁴
- 4 Chromanone, 7,6-dihydroxy 3 veratryl-, 1534²⁵
- Dehydrophyllodulcic acid, dimethyl 3979²⁶
- m Meconin 2 - (3,4 dimethoxyphenyl), 934²⁷
- C₁₃H₁₅O₄ Compd, m 185-7°, from reaction of maleic anhydride with m C₁₃H₁₅(OMe)₃ in the presence of AlCl₃ 4866²⁸
- Flavanone, 5,7 dihydroxy 3,4,5 trimethoxy-, 3979²⁹
- Veratric acid, 6-veratroyl-, 4538³⁰ and salts, 934³¹
- C₁₃H₁₅BrN₂O₄ Homoveratramide N (m bromophenethyl) 2 nitro-, 4552³²
- C₁₃H₁₅ClN₂O₄ Hydroquinone, bis(chloroacetate) compd with N,N-dimethylamine, 1814³³
- C₁₃H₁₅IN₂O₄ (1 Ethyl 2(1) pyridylidene) 1 methylquinoxalidium iodide, 4269³⁴
- C₁₃H₁₅N₂O Quinolone, 1 benzoyl 1,2,3,4 tetrahydro 2,4 dimethyl, 70³⁵
- C₁₃H₁₅N₂O₃ Acrylic acid, β - ethylamino α β diphenyl-, Me ester, 514³⁶
- 1 Butanol, 2 benzal, carbamate, 2768³⁷
- C₁₃H₁₅N₂O₃S Retenesulfonic acid, 513³⁸
- C₁₃H₁₅N₂O₃ Butyramide, o - hydroxy, α tolate, 1818³⁹
- 6 - Dibenzof[8e, q]quinolin - 2 - ol 4,5,6a,7 tetrahydro - 10,11 - dimethoxy, and HCl, 4553⁴⁰
- Isoquinoline, 1 - β - anisyl - 3,4 - dihydro - 6,7-dimethoxy-, 5678⁴¹
- Morphothebanone, HCl, 3004⁴²
- α Toluamide, o' hydroxy, butyrate, 1818⁴³
- C₁₃H₁₅N₂O₃ 9,10 Anthracinol, 6 amino-1,2,3,4 tetrahydro-, diacetate 3993⁴⁴
- Phenethylamine 3,4 dimethoxy N p-peronyldene 3632⁴⁵
- C₁₃H₁₅N₂O₃ Malonanilic acid, α veratryl 5671⁴⁶
- C₁₃H₁₅N₂O₃ Dehydrophyllodulcic acid, di methyl oxime 3979⁴⁷
- C₁₃H₁₅N₂O₃ Flavonone, 5,7 - dihydroxy 3,4', 5 trimethoxy oxime 3979⁴⁸
- C₁₃H₁₅N₂O₃ Nitro deriv m 159°, of acid m 202° 1499⁴⁹
- C₁₃H₁₅N₂ Pyrazole 5 - (β dimethylamino phenyl) 3 methyl 1 phenyl 1509⁵⁰
- C₁₃H₁₅N₂O Oxandole 3 (β dimethylamino phenylamino) 1-ethyl-, 293⁵¹
- Δ^1 3 Pentenone 1,5 diphenyl, semi carbazone 4550⁵²
- C₁₃H₁₅N₂O₃ 1,3 Butanedione 1 phenyl thio-4 β tolylsemicarbazone 1225⁵³
- C₁₃H₁₅N₂O₃ Compd m 141° from dihydro-mono-cyclopentadienequinone and 1h C₁₂H₁₁ 1807⁵⁴
- Crotonophenone β methoxy (?) 4 phenylsemicarbazone 2132⁵⁵
- Isocrotonophenone β methoxy (?) 4-phenylsemicarbazone 2132⁵⁶
- 1,2 Propanedione, 1 o tolyl 2 oxime 1 phenylhydrazine Ac deriv, 1827⁵⁷
- C₁₃H₁₅N₂O₃ Pyridine 3 (1 allyl 2 pyrrolidyl) picrate 300⁵⁸
- C₁₃H₁₅ Indan 1,1,3 trimethyl 3 phenyl 4240⁵⁹
- 2 Pentene 4 methyl 2,4 diphenyl, 4239⁶⁰
- C₁₃H₁₅AsN₂O₃ Acetophenone 3,3' arsenobis-6 hydroxy luthosemicarbazone, P 967⁶¹
- C₁₃H₁₅BrN₂O₃ Codeinone 1 bromodihydro 9,9⁶²
- Metacodeinone 1 bromodihydro 9,9⁶³
- C₁₃H₁₅BrN₂O₃ Codeinone, 1 bromodihydro-hydroxy- 9,9⁶⁴
- C₁₃H₁₅BrN₂ Δ^1 2 Eutenone 3 bromo-4 (β dimethylaminophenyl), phenyl hydrazine 1508⁶⁵
- C₁₃H₁₅BrN₂O 2,5 Hexanedione 3 hydroxy bis(β bromophenylhydrazine) 494⁶⁶
- C₁₃H₁₅ClN₂O₃ Codeine chloro- and salts 3655⁶⁷
- C₁₃H₁₅INO₃ Codeine iodo- and HCl 3655⁶⁸
- C₁₃H₁₅N₂INO₃ Phenol (α smooethyl)methoxy N salt, 2131⁶⁹
- C₁₃H₁₅N₂O Quinolone, 1,2,3,4 tetrahydrodi-methyl 1 phenylcarbamyl, 705⁷⁰
- C₁₃H₁₅N₂O 2,3 Hexanedione, 6 - phenoxy 3-phenylhydrazine 4580⁷¹
- Hydrazine, dibenzoyl sec butyl, 2416⁷²
- Oxamide, N,N diphenethyl 5403⁷³
- Oxamide, N,N-diethyl, 294⁷⁴
- C₁₃H₁₅N₂O₃ Benzoic acid, 5 amino 2 iso butylamino-, benzyl ester HCl 4245⁷⁵
- β Crotonamide, β (β methoxyamino), 2128⁷⁶
- Hydrocinnamic acid, β - methoxy, anisal hydrazide, 4403⁷⁷
- C₁₃H₁₅N₂O₃ Ethanol, 2 methylphenethylamino, β nitrobenzoate, HCl, 2709⁷⁸
- 1 - Propanol, 3 benzylmethylamino β nitrobenzoate, HCl, 2709⁷⁹
- C₁₃H₁₅N₂O₃S Ethanol, 2,2' - thiois, dicarbamate, 2114⁸⁰
- C₁₃H₁₅N₂O₃ 6 Isoquinoline, 1,2,3,4 tetrahydro-1 (2 nitroveratryl), 4552⁸¹
- C₁₃H₁₅N₂O₃Si + 9H₂O, 3926⁸²
- C₁₃H₁₅N₂O₃Th + 5H₂O, 3926⁸³

- C₁₂H₂₀N₂O₆Ti + H₂O 3926¹
 C₁₂H₂₀N₂O₆ 1 2 4 5 Benzenetetrol 3,6-diacetamido-tetraacetate, 2129⁴
 C₁₂H₂₀N₂O₆S₂ Ethane : bis(p-nitrophenyl sulfanyl) disulfate, 5392⁷
 C₁₂H₂₀N₂O₆ Osazone decomps 183°, from compd decomps 205° 4233¹
 C₁₂H₂₀N₂O₆ Osazone from tetraacetylhydroxy glucal, 5896¹
 C₁₂H₂₀N₂O₆ Acetylbenzylidimethylammonium picrate 91¹
 2 Butanone 3 dimethylamino 4 phenyl, picrate, 91¹
 Indanamine methoxy N N-dimethyl, picrate, 2139⁷
 2 Naphthylamine 1 2 3,4-tetrahydro 1 methoxy N methyl picrate 2139⁴
 C₁₂H₂₀N₂O₆ Homopiperonyl alcohol 5-methoxy α methyl β methylamino-picrate 4535¹
 C₁₂H₂₀N₂O₆ 2,5 Hexanedione, 3-hydroxy, bis(p-nitrophenylhydrazones), 494¹
 C₁₂H₂₀N₂O₆ Ether benzyl 5,6,7,8-tetrahydro 2 naphthyl P 2735¹
 C₁₂H₂₀N₂O₆ Phenol, p-ami-, benzoate, 1229⁷
 Phenol pentamethyl, benzoate 4533¹
 2,6 Xylenol 4 ethyl α² phenyl acetate 930¹
 C₁₂H₂₀N₂O₆ Anthracene 9 10 dihydro 2,3,6,7-tetramethoxy 2145¹
 Butyric acid, δ p anisyl β hydroxy α-phenyl Me ester 2986¹
 Des-γ-tributene tetrahydro- 2731¹
 C₁₂H₂₀N₂O₆ Acetic acid, α α' (1,5 naphthylene dihydro)bis- di Et ester, 3341¹
 C₁₂H₂₀N₂O₆ 1,9,10 Anthranol, hexahydro-diacetate 3993¹
 Desoxyphyllodulcine acid dimethyl, 3079¹
 C₁₂H₂₀N₂O₆ Acid in 188°, from action of *Penicillium glaucum* on sucrose, 1499⁴
 Valeric acid, 6-veratryl, 934¹
 C₁₂H₂₀N₂O₆ Acid, in 202°, from action of *Penicillium glaucum* on sucrose, 1499⁴
 C₁₂H₂₀BrN₂O₆ Diphenethylamine, 3'-bromo-3,4-dimethoxy 2-nitro-, 4552¹
 C₁₂H₂₀N₂O₆ Butyrophosone, α - dimethylamino-β-phenyl, 91¹
 Caproamide, α-phenyl, 2135¹
 C₁₂H₂₀N₂O₆ Benzamide, β' isomeric 2706¹
 Dehydrogustone p-tolueno-, 2121¹
 Desoxycoedant, and salts, 3655A 1A
 Ethanol, 2-methylphenethylamino-, benzoate, -HCl, 2709⁴
 Phenol, pentamethyl, carbamate, 4533¹
 1 Propanol, 3-benzylmethylamino-, benzoate, -HCl, 2709⁴
 —, 3 (2-4-xylyl), carbamate, 693¹
 Propiophenone, β - p-anisyl - α - dimethylamino-, 91¹
 Spiro[indan 2,3'-pyrrolidine] - 2',5'-dione hexahydro-1' phenyl, 3334¹
 C₁₂H₂₀N₂O₆ (See also Codine)
 Metacodone, dihydro-, 959¹
 Metathalamone, 959¹
 Phenethylamine, N amide 3,4 dimethoxy, 3632¹
 —, p-methoxy N veratryl, 3632¹
 Thalamone, 5677¹
 C₁₂H₂₀N₂O₆ Anisamide N - (3,4-dimethoxyphenethyl), 5676¹
 Codone, dihydrohydroxy, 959¹
 1 Ethanol, 2 amino 1,2 di-β anisyl Ac deriv 1240¹
 Glutaconic acid, γ benzyl - α - cyano - β methyl, di Et ester, 2686¹
 Piperonylamine, N - (3,4-dimethoxyphenethyl), and salts 3633¹
 Resorcinol, 4 - (1,2,3,4-tetrahydro-5,7-dimethoxy-2-methyl-1-isquinolinyl), 5676¹
 C₁₂H₂₀N₂O₆S Ephedrine, N phenylsulfonyl, acetate, 683¹
 C₁₂H₂₀N₂O₆ p-Asaronophenolide, 5154¹
 C₁₂H₂₀N₂O₆S Sinomenonesulfonic acid, 1533¹
 C₁₂H₂₀N₂O₆ 2-Propanone, 1,3-ditolyl-, semicarbazone, 5409¹
 C₁₂H₂₀N₂O₆ Acetophenone 2-hydroxy-3-methyl-5-propyl, β - nitrophenyl hydrazones, 929¹
 C₁₂H₂₀N₂O₆ Buuret, 1,5-di-β-phenethyl, 936¹
 C₁₂H₂₀N₂O₆S Alanine N [N (2-naphthalenecarbonyl)allyl]ethyl, 2741¹
 C₁₂H₂₀N₂O₆ Benzene, hexamethyl, picrate, 1815¹
 C₁₂H₂₀N₂O₆ Idosyl-β amine, β nitrophenylazone 2121¹
 C₁₂H₂₀N₂O₆ Histetyl, 940¹, 1134¹, 2713¹
 C₁₂H₂₀As₂N₂O₆S₂ Acetophenone, 3,3'-arsenobis [5-amino-6-hydroxy, buthienem carbazone, P 967¹
 C₁₂H₂₀BrN₂O₆ Dimethyl-α-methylbenzylphenacylammonium bromide, 91¹
 C₁₂H₂₀BrN₂O₆ β-Methoxybenzyl dimethylphenacylammonium bromide, 91¹
 C₁₂H₂₀BrN₂O₆ Thebaine, 1-bromodihydro-, and salts, 959¹
 C₁₂H₂₀BrN₂O₆ Thebaine, 1-bromodihydrohydroxy, 959¹
 C₁₂H₂₀N₂O₆ Acridine, 1,2,3,4-tetrahydro-5-(1-piperidyl), 3346¹
 C₁₂H₂₀N₂O₆ 2-Indanacetamide, α-cyano-3a,4,5,6,7,8a-hexahydro-, 3333¹
 C₁₂H₂₀N₂O₆ Ethanol, 2-methylphenethylamino-, p-aminobenzoate, di HCl, 2709⁴
 Pthalimide, N (11) (uponyl-, 3007¹
 1 Propanol, 3-benzylmethylamino-, β-aminobenzoate, di HCl, 2709⁴
 Urea, α-cyclohexyl α-(2-lutylmethyl) β-phenyl, 1810¹
 C₁₂H₂₀N₂O₆ 6-Isouquinolol, 1-(2-aminoveratryl) 1,2,3,4-tetrahydro-, 4552¹
 Metacodone, dihydro-oxime 959¹
 Metathalamone oxime, 959¹
 C₁₂H₂₀N₂O₆ Apiose, benzylphenylhydrazones, 929¹
 Arabanose, benzylphenylhydrazones, 4527¹
 Isopyrrolepropionic acid, 2 (3-carboxy 3-ethyl 4-methyl-2-pyrrolmethylene) dimethyl-, HBr, 111¹, 4009¹
 Urea, α-phenyl β (trimethoxyphenethyl) 6403¹
 C₁₂H₂₀N₂O₆ 4-Isopyrrolecarboxylic acid 2 (3-carboxy-5-hydroxy 4-methyl-2-pyrrolmethylene)-3,5-dimethyl-, di Et ester, 4010¹
 4 Isopyrrolepropionic acid, 2 (3-carbethoxy-5-hydroxy 4-methyl-2-pyrrolmethylene)-3,5-dimethyl-, 4009¹, 4010¹
 —, 2-(3-carbethoxy-5-hydroxy-4-methyl-2-pyrrolmethylene)-3-methyl, Me ester, 4010¹
 C₁₂H₂₀N₂O₆ Ureal, tetraacetylglucosido-, 84¹
 C₁₂H₂₀N₂O₆ Baccetyl, methylphenylazone, 1455¹
 C₁₂H₂₀N₂O₆ Phenethylamine, β methoxy N,N,α-trimethyl-, picrate, 1814¹

- C₁₈H₂₆N₂O₈ Theobromone, 2 (β dimethyl aminopropyl)-, picrate, 1031³
- C₁₈H₂₆O 2 - Fentanol, 2 methyl 4,4 di phenyl, 4240⁴
- C₁₈H₂₆O₂ Caprophenone, β 2 furyl α α di methyl, 5421²
- C₁₈H₂₆O₃ Glycolaldehyde, diphenyl di Et acetal, 2113¹
- C₁₈H₂₆O₄ Propiophenone, α - hydroxy β methoxy β phenyl di Me acetal 941⁴
- C₁₈H₂₆O₇ Reduction product, m 237², of acid m 202², 1499²
- C₁₈H₂₆Br₂I Benzylidethyphenylammonium iodide CIIBr₂ compd, 282⁴
- C₁₈H₂₆Br₂I Benzylidethyphenylammonium iodide CII₂ compd 282⁴
- C₁₈H₂₆BrN₂O₂ Thebaine, 1 bromodihydroxime, 959⁴
- C₁₈H₂₆BrN₂O₄ 4 Isopyrrolepropionamide, 2 [5 bromo 3 (β carbamylethyl) 4 methyl] 2 pyrrolimethylene] 3 5-dimethyl, 2433⁴
- C₁₈H₂₆Br₂N Benzylidethyphenylammonium iodide CII₂Br₂ compd, 282⁴
- C₁₈H₂₆Cl₂N Benzylidethyphenylammonium iodide CII₂Cl₂ compd 282⁴
- C₁₈H₂₆FIN Ethyl(β fluorobenzyl)methyl(β methylbenzyl)ammonium iodide 925⁴
- C₁₈H₂₆HgI₂S Dibenzylbutylsulfonium mercurodide 689⁴
- C₁₈H₂₆I₂N Benzylidethyphenylammonium iodide CII₂I₂ compd 282⁴
- C₁₈H₂₆NO₂ Cinchonine acid, α methylbenzyl ester 454⁴
- Desoxycodeine dihydro and salts, 3650⁴ 3650⁴ + 4
- Diphenethylamine 3,4 dimethoxy, and salts 3632⁴
- 4 Heptanol, 1 naphthalenecarbamate 496
- 1 Hexanol 3 methyl 1 naphthalenecarbamate 3626⁴
- Quinaldic acid α methylheptyl ester 4540⁴
- Triethylamine β (β - phenoxyphenoxyl) HCl P 5240⁴
- C₁₈H₂₆NO₃ β Toluenesulfonamide V methyl V (4-phenylbutyl), 2709⁴
- β Toluenesulfonamide N (isoamyl) 1797⁴
- C₁₈H₂₆NO₃ Codeine, dihydro-, 1813⁴, 3004⁴
- 2 Indancarboxylic acid hexahydro 2 (phenylcarbamylmethyl) 3333⁴, 3334⁴
- Phenethylamine, 3 4 dimethoxy V β methoxybenzyl and salts, 3635⁴
- Sponemol, demethoxydihydro-, 299⁴
- Veratrylamine, N (β methoxyphenethyl) and salts, 3633⁴
- C₁₈H₂₆NO₄ 2 Camphane-carbinol β nitrobenzoate, 507⁴
- Glutaric acid, β - benzyl α cyano α methyl, di Et ester 1603⁴
- , α cyano β (α methylbenzyl), di Et ester 1603⁴
- C₁₈H₂₆NO₅ 3 α - Piperidinedicarboxylic acid 1 benzyl - 4 keto - 2,6 dimethyl, di-Me ester, P 1037⁴
- C₁₈H₂₆N₂O₃ β Toluenesulfonamide, β' nitro-compd with piperidine 2727⁴
- C₁₈H₂₆N₂O 3 Supramenonesulfonic acid, diisoxime, 1533⁴
- C₁₈H₂₆N₂O₄ Camphoramic acid, 4 - ethoxy 2,8-dimethoxy, 2711⁴
- C₁₈H₂₆N 3 - Carvone thio-1 β tollysemicarbazone 1225⁴
- C₁₈H₂₆N₂ Naphthalene di-1 butyl 944⁴
- C₁₈H₂₆N₂O₂ Isopyrrole 5 (bromomethyl) 2 (5 bromo 4 methyl 3 propyl 2 pyrrolimethylene) 3 methyl 4 propyl salts 3009⁴
- C₁₈H₂₆Br₂N₂Zn 3025⁴
- C₁₈H₂₆N₂ Benzylisobutylmethylphenylammonium iodide 1502⁴
- C₁₈H₂₆N₂ 1 Methylpyridinium iodide compd with β phenylenediamine 5426⁴
- C₁₈H₂₆N₂Zn 3025⁴
- C₁₈H₂₆N₂ 3 3 Bimidine 940⁴
- C₁₈H₂₆N₂O₂ Benzylisobutylmethylphenylammonium nitrate 1502
- Cinchonine acid 2 (diethylaminoethoxy) Et esters P 712⁴
- 2 ethoxy β diethylaminoethyl ester 5245⁴
- Isopyrrolepropionic acid 2 (ethyl 3 hydroxymethyl α pyrrolimethylene) dimethyl, Me ester 4008⁴ 4009⁴
- 2 (3 ethyl 5 methoxy 4 methyl 2 pyrrolimethylene) 3 5 dimethyl 4008⁴
- C₁₈H₂₆N₂O₂ Apocucidine N acetylcarboxy, 4002⁴
- C₁₈H₂₆N₂O₅ 3 3 Bi- β toluenesulfonamide V N N tetramethyl 283⁴
- C₁₈H₂₆N₂O₂ Nicotinic acid 1 (γ hydroxy propyl) Et ester β nitrobenzoate HCl P 1037⁴
- C₁₈H₂₆O₂ See Theoid
- C₁₈H₂₆O₂ Cyclohexanol 2 butyl acid phthalate 1809⁴
- C₁₈H₂₆Br₂N₂ Isopyrrole 2 5 bromo 4 methyl 3 propyl 2 pyrrolimethylene] 3 5 dimethyl 4 propyl HBr 3009⁴
- C₁₈H₂₆IN₂O₂ Nucidine 2 keto 3 hydroxy methiodide 706
- C₁₈H₂₆NO α Toluenamide V 3 carvomen thonyl 1234⁴
- C₁₈H₂₆NO₂ Anisamide, N 3 carvomen thonyl 1234⁴
- Thebacodine dihydro-, 2432⁴
- C₁₈H₂₆NO₃ Camphoramic acid dimethyl 2711⁴
- C₁₈H₂₆NO₃ α Camphorsulfonamide, V ethyl, 3322⁴
- C₁₈H₂₆NO₂ Camphoramic acid 4-ethoxy, 2711⁴
- Navigan 1285⁴
- Nicotinic acid, 1 (γ hydroxypropyl), Et ester, benzoate, HCl, P 1037⁴
- Tropic acid, β 1 piperidylethyl ester, acetate, 1285⁴
- C₁₈H₂₆NO₄ Glucose, osime, hexaacetate 1220⁴
- C₁₈H₂₆N₂O₂ Spiro[cyclopentane 1,2 - (indan)-2,5 dicarboxylic acid, hexahydro - 3,4 diketo-, di Me ester, semicarbazone, 3335⁴
- C₁₈H₂₆N₂O₂ Nucidine, dihydrodiketo-, semicarbazone, 4275⁴
- C₁₈H₂₆N₂O₂ Nucidine aldehyde, 3 keto-2 hydroxy, semicarbazone, perchlorate, 706⁴
- C₁₈H₂₆N₂O₃ Hexanone, 6 dimethylammonio, picrolonate 432⁴
- C₁₈H₂₆Ca₂N₂O₄ + 3H₂O See Ipral
- C₁₈H₂₆CuO₄ Malonic acid, (α hydroxyethyl) dene, di Et ester, Cu deriv, 2976⁴

8. Benzoflavone 3,4 dihydroxy, 476^a
- Naphtha cnequonone 1,4 dihydroxy 2 methyl 2163¹
- C₉H₇ClN₂O₂ Pyridine 4 chloro 2 dibenzoyl amino 2425^a
- Q inone 2 chloro- 1 oxime compd with acridine 2669^a
- C₉H₇ClNO Benzamide acid, \ (chlorophenyl) chlorophenyl ester, 692^a 214¹
- C₉H₇ClNO₂ Sulfide α chlorobenzohydroxyl 4 chloro 2 nitrophenyl 2413
- C₉H₇ClN Benzophenone 2,4,6 trichlorophenylhydrazones 2409^a
- C₉H₇IN₂O₂ Pyridine 2 dibenzoylamino 4-iodo 2429^a
- C₉H₇N Aniline \ 9 fluorobenzene 4246^a
- C₉H₇NO Naphthylamine \ (1 benzofurylmethylene) (?) 1946¹
- C₉H₇NO₂ 7 *meso* Benzanthrenone, acetamide 5170^a
- C₉H₇NO₂ Benzophenone 4 nitro 4 phenyl, 2127
- C₉H₇NO₂ Benztrophenone 3 nitro 4 phenyl mercapto 2126¹
- Benztrophenone 4 (p nitrophenylmercapto) 2125¹
- C₉H₇NO₂ Benzophenone nitro-4 phenoxy, 2127^a
- Δ^1 1 Propenone 1 (8 hydroxy 5-quinoyl) 3 (3,4 methylenedioxy phenyl) 2¹⁰⁰
- C₉H₇NO₂ Acetic acid (1 cyano 2 anthraquinonylmercapto) Et ester 2¹⁰³
- C₉H₇N₂O 1,3,2,4,5 isoxanthineone, 4 naphthylazo- 3648¹
- C₉H₇N₂O₂ Nicotinonitrile 1,2 dihydro 2 keto 1 methyl 6 (p nitrophenyl) 4 phenyl, 2143¹
- C₉H₇N₂O₂ Fluorene picrate 1816¹
- C₉H₇N₂O₂ Benzotriazole, 1 amino- picrate 104¹
- C₉H₇BrNO₂ Sulfide α bromobenzohydroxyl o-nitrophenyl, 2413¹
- C₉H₇BrN₂ Formaniline, \ \ bis(bromophenyl)- α phenylazo-, 2¹⁰¹
- C₉H₇BrNO₂ Benzenesulfonotoluene 4,5 dibromo 6 hydroxy, p isom-benzenesulfonate 5405¹
- C₉H₇ClN₂O₂ Benzamide 4' chloro 2- (p chloroanilino) 5-hydroxy, P 5 98¹
- C₉H₇ClO₂ Cresol dichloro α phenyl, benzenesulfonate, 3639¹
- C₉H₇ClNO₂ Anthracene 2,1 β pyrrole 2 carboxylic acid, 1 hydroxy, F & ter K deriv 948¹
- C₉H₇N₂O Nicotinonitrile 1,2 dihydro 2 ketophenyl p tolyl 15 4¹ 1529¹ 2145
- C₉H₇N₂O₂ 1-Acenaaphtheneamine \ - nitrobenzyl, 3935^a
- Benzoxanth, 14 keto Δ^1 cyclohexyl dicyclohexylhydrazide 5131^a
- Nicotinonitrile 4 p anisyl 1,2 dihydro-2 keto 6-phenyl 455¹
- Phenyl p-phenylazo-benzoate 5151^a
- C₉H₇N₂O₂ A ensthenamide 1 benzamide-3-oxo- 3¹⁰²
- C₉H₇NO₂ Phthalimide \ [2 p anil 4 thiazolylmethyl] 9¹
- C₉H₇N₂O₂ Anthranic acid 5 nitro \ \ 1,2 β naphthylalan 4 acetamide
- α 3 dieano 3,4 dihydro-2 keto-Et ester, 2146¹
- C₉H₇N₂O₂ Phthalimide, \ [8- [4 (3,4 dihydroxyphenyl) - 2 thiazyl]ethyl], 2722^a
- C₉H₇N₂O₂ Benzoic acid, 2 (1-naphthyl) 3,5-dinitro, Et ester, 4208¹
- C₉H₇N₂O₂ Urea, α bis(b-hydroxy-4-quinoyl), 954¹
- C₉H₇N₂O₂ Diphenylamine, 3 α dimtro 2 (phenylmethyl) 3974¹
- C₉H₇O₂ 7 *meso* Benzanthrenone, 2,6 dimethyl, P 1260^a
- Benztrophenone, p phenyl, 4206¹
- 9 Fluoreneol, 9 phenyl 3983¹
- 1 Indenyl ketone 1517¹
- C₉H₇O₂ Acrylphenone β - (3 hydroxy 2 naphthyl) 2146¹
- 3 Fluoranthene-carboxylic acid Et ester, 5163^a
- Xanthidrol, 9 phenyl, 99¹
- C₉H₇O₂ 7 *meso* - Benzanthrenone, 2,3 dimethoxy, P 712^a
- Furanol[3,4,5,10]anthracene 12,14 dione 5,10,11,15 tetrahydro 11 methyl, 3646¹
- 2 Naphthoic acid, 3 benzoic, Me ester, 5162^a
- 3 p tolyl 5162^a
- Salicylic acid 4,6-diphenyl, 3327¹
- C₉H₇O₂ Benzoic acid, α - (2 hydroxy 1 naphthyl), Me ester 5418
- Benzoic acid α (2 methoxy 1 naphthyl), 5418¹
- C₉H₇O₂ See Phenylsulfonephthalimide
- C₉H₇O₂ 4 Chromanone 7 hydroxy 3 piperonyldent, acetate 1534¹
- Dandzio, diacetate 2675¹
- C₉H₇ Triphenylmethyl, 99¹, 2991¹
- C₉H₇AgN₂ Indole base, Ag deriv, 103¹
- C₉H₇Br Methane bromotriphenyl, 1429¹
- C₉H₇BrN₂ Triphenylmethylmagnesium bromide, 4256¹
- C₉H₇BrN₂ Benzaldehyde, α (p bromophenylazo), phenylhydrazones, 5152^a
- Benzaldehyde, α phenylazo-, p-bromophenylhydrazones 5152^a
- C₉H₇BrNO₂ p Toluene-sulfonamide, 2,6 dibromo-4 phenyl, 2727¹
- C₉H₇Cl Methane chlorotriphenyl 99¹, 942¹, 1429¹, 203¹, 5400¹, 5810¹
- C₉H₇ClN₂O₂ Phenyl p phenylazo-, compd with BrCl 3321^a
- C₉H₇ClO₂ Carbanol, triphenyl, perchlorate 99¹
- C₉H₇CuN₂ Indole base Cu deriv 103¹
- C₉H₇IN₂ 1-Acenaaphtheneamine, \ - benzal, 3935^a
- Acridan 5-phenyl 29¹
- Aniline N-phenylmethylene, 93^a, 282^a 4246¹
- C₉H₇NO Acenaaphthene 1 benzoylido-, 3985^a
- C₉H₇NO₂ Carbanol triphenyl, toluene 3639¹
- C₉H₇NO₂ Benztrophenone 3 - amino - 4 phenoxy and HCl 2127¹
- C₉H₇NO₂ Acenaaphthene 4 benzyl 3-nitro 151¹
- Anthra 1 β pyrrole 2 carboxylic acid, 1 thiazolyl 1 keto-11 ester, 945
- C₉H₇NO₂ 1-Acenaaphthene 312^a
- Indeno 3 7 814 (no ne d methoxymethylated oxy HCl 1253¹

- 2 Naphthoic acid 4 (benzamidomethyl) 3 hydroxy, 5399^a
- $C_{11}H_{11}NO$: 1 Indanone, 4,5 dimethoxy 2 (6 nitropiperonylidene) 1253^a
- 1 - Indanone, 4,5 methylenedioxy 2 (6 nitroveratril) 1253^a
- $C_{11}H_{11}N_2O_2$: 2 Naphthaldehyde 3 hydroxy acetate β nitrophenylhydrazine 2146^a
- 2 Naphthoic acid, 3 methoxy, α (and m) nitro enzaldehyde 2139^a
- $C_{11}H_{11}N_2O_2$: Benzaldehyde, α (β nitrophenyl azo) phenylhydrazine, 5152^a
- $C_{11}H_{11}$: See *Methane triphenyl*
- $C_{11}H_7BrNO_2S$: m Benzenesulfonotoluene 5 bromo 6 hydroxy, benzenesulfonate 5108^a
- $C_{11}H_7BrN$: Guanidine α amino β γ bis (bromophenyl) 2701^a
- $C_{11}H_7BrO_4$: 1,1 Cyclopropanedicarboxylic acid 2,3 dibromo 2,3 d phenyl di Me ester 1808
- $C_{11}H_7ClNO$: C nophen 6 methoxy β chloroethyl ester 4983^a
- $C_{11}H_7MoN_2S_4 + 2H_2O$ 3:87^a
- $C_{11}H_7N_2$: Benzophenazine 1,5,6 trimethyl 2714^a
- $C_{11}H_7N_2O$: Benzophenone β hydroxy phenyl hydrazine 659^a
- $C_{11}H_7N_2O_2$: Benzamide 3 amino-5 hydroxy P 5208^a
- 2 Naphthoic acid 3 methoxy benzal hydrazide 2139^a
- Nicotinonitrile 4 β anisyl 1,2,3,4 tetrahydro 2 keto 6 phenyl 4882
- Phthalimide A (γ 3 indylpropyl) 514
- Triphenylamine 2 methyl 4 nitro 500
- $C_{11}H_7N_2O_2$: Cinchophen 7 acetamido-6 methyl 619^a
- Fantam 3127^a
- Naphthol phenylazo- ethylcarbonate 5151^a 5152^a
- $C_{11}H_7N_2O_2$: Mesaconic acid β nitrobenzyl ester 3626^a
- $C_{11}H_7N_2$: Benzaldehyde α phenylazo phenyl hydrazine 5152^a
- 1 Tetrazene 4 benzal 1,3 diphenyl 5152^a
- $C_{11}H_7N_2O_2$: Anisole, 2,4,6 trimethoxy compd with $PhNH_2$ 855^a
- Quinolone 2,3-butenyl, picrate 1829^a
- $C_{11}H_7N_2O_2$: Toluidine α amino- dipicrate 4241^a
- $C_{11}H_7O$ (See also *Carbinol triphenyl*)
- 1 Acetonaphthone 4 benzyl 1515^a
- Ketone 4 benzyl 1 naphthyl methyl P 1684^a
- , 4,7 dimethyl 1 naphthyl phenyl 2716^a
- 1 Propionaphthone β phenyl 4256^a
- $C_{11}H_7NO_2$: Benzoydrol, α -phenoxy 3984^a
- Hydrogen peroxide triphenylmethyl 3084^a
- Propiophenone, β 2 furyl β phenyl 1520^a
- $C_{11}H_7O_2S$: 2 Thiopheneacetic acid, α , α di phenyl, Me ester 2143^a
- $C_{11}H_7O_2$: Benzene, 1 (β methoxyphenoxy) 4 phenoxy 1810^a
- Des-A homotriobline, 2732^a
- α -Toluic acid α (2 methoxy 1 naphthyl) 5418^a
- $C_{11}H_7O_2$: 1,1 Cyclopropanedicarboxylic acid, 2,3 diphenyl, di Me ester, 1800^a
- 1,1 Indenedicarboxylic acid, 3 phenyl di Me ester 1517^a
- Retenequinonecarboxylic acid 513^a
- $C_{11}H_7O_2S$: Carbinol triphenyl acid sulfate 96^a
- $C_{11}H_7O_2S$: Toluene 2,4 bis phenylsulfonyl 283^a
- $C_{11}H_7O_2$: Anthradol methoxy diacetate 1510^a 15:0^a
- 4 Chromanone 3 vanillic acetate 1534^a
- $C_{11}H_7O_2$: Cinnamic acid 3 (β carboxy vinylphenoxy) 4 methoxy 2:83^a
- $C_{11}H_7O_2$: Luxanthic acid 5430^a
- $C_{11}H_7O_2S$: Methyl mercaptan triphenyl 3618
- $C_{11}H_7BO_2S$: Thioxanthone 1 hydroxy 2 methoxy 4 methyl diacetyl orate 2725
- $C_{11}H_7BO_2S$: Thioxanthone 1 hydroxy 2 methoxy 4 methyl diacetyl orate 10 dioxide 2725^a
- $C_{11}H_7ClNO_2$: Phenol β naphthylazo compd with EtCOCl 33:2
- $C_{11}H_7N$: Pyridine 1 benzyl α HCl 5429^a
- $C_{11}H_7NO$: Acetamide A (4 benzyl 1 naphthyl) 1515^a
- I Acetonaphthone 4 (enzyl oxime 1515^a)
- $C_{11}H_7NO_2$ (See also *Neocinchophen*)
- Benzocyclopent[β]indole 5,7 diacetyl 7,8,9,10 tetrahydro 15:2
- Cinchophen I ester P 5013^a
- $C_{11}H_7NO_2$: Cinchophen 6 ethoxy Me ester 4884^a
- Cinchophen 6 methoxy Et ester 4884^a
- $C_{11}H_7NO_2$: Coptine tetrahydro 518^a 4003^a
- 3 Quinolonecarboxylic acid 1,4 dihydro 4 keto 6 methoxy 2 phenyl Et ester 1830
- $C_{11}H_7NO_2$ (544) Oxazolone 2 phenyl 4 (2,3,5 trimethoxybenzal) 4868^a
- $C_{11}H_7NO_2S$: 2 Anthraquinonesulfonic acid, 5- (1 pyridyl) 5424^a
- $C_{11}H_7NO_2$: 1,1 Cyclopropanedicarboxylic acid 2 nitro 2,3 diphenyl di Me ester 1800^a
- $C_{11}H_7N_2$ (See also *Parafuchsin*)
- Guanidine, triphenyl polysulfides 2423^a
- $C_{11}H_7NO_2$: Pyrrolealdehyde 1 β tosyl, phenylhydrazine 2:97^a
- $C_{11}H_7NO_2$: Cinchophen 6 hydroxy, isopropylidenehydrazide 4833^a
- Quinacine acid α nethylbenzalhydrazide 953^a
- 3 Quinolone 6,7 dimethoxy 2 β toluene 12:3^a
- $C_{11}H_7NO_2S$: Thioxanthone[5,4- β] β isothiazine 2,9(3,8) dione (β dimethyl aminophenyl amino) 6 methyl 4350^a
- $C_{11}H_7N_2O_2$: Imidaz[4,3- a]isoquinoline, 5,6 dihydro 8,9 dimethoxy 3 phenyl, nitro deriv., 1531^a
- $C_{11}H_7N_2O_2$: β Cinnamotoluene α cyano 4,5 dimethoxy 2 nitro-, 12:3^a
- 1 Naphthylamine V (β methoxyphenethyl) 2,4-dinitro-, 540^a
- $C_{11}H_7N_2O_2$: Naphthalene, isopropyl, picrate 944^a 3971^a
- Naphthalene, propyl picrate 1815^a 1816^a
- , trimethyl picrate, 693^a, 694^a 1232^a, 1816^a, 4544^a
- Sepotolin picrate 21:06^a
- $C_{11}H_7NO_2$: Naphthalene 7 ethyl 1 methyl, styphate, 961^a, 2987^a

- Naphthalene trimethyl styphnate 693², 694 1232 4544¹
- C₁₂H₁₁N₃O₁₃ Meconin 3 nitro 2 (2,3,4 trimethoxy 5,6 dimetropheyl) 4519⁴
- C₁₂H₁₁N₃O₁₃ 2,9 Pyridinedole 3,4 dihydro-1,9-dimethyl picate 301²
- 2,9 Pyridinedole 1 ethyl 3,4 dihydro picate 300²
- C₁₂H₁₁N₃O₁₃ Harman 3,4 dihydro 8 methoxy, picate 301²
- C₁₂H₁₁N₃O₁₃ 1 Isoquinolineacetomitrile 3,4 dihydro 6,7 dimethoxy picate 1030²
- C₁₂H₁₁N₃O₁₃ Benzenesulfonic acid *p* (p-bromophenoxy) *p*-toluidine salt, 1816²
- C₁₂H₁₁N₃O₁₃ Malonic acid bromo(β nitro α β diphenylethyl) di Me ester 1806²
- C₁₂H₁₁N₃O₁₃ Paracetaminine perchlorate, 1513²
- C₁₂H₁₁N₃O₁₃ Acridine 5 amine 1,2,3,4 tetrahydro- and HCl 3345²
- quinoline α β dimethylaminobenzal HCl 4625
- 2 β Tolylenediamine γ γ diphenyl and HCl 500²
- Yobyrine 2730² 3003²
- C₁₂H₁₁N₃O₁₃ 1 Naphthamide 4 dimethyl amide, 1515²
- 8 Quinolone, 2 β dimethylaminoethyl, 4625²
- C₁₂H₁₁N₃O₁₃ Benzoic acid, β (4 methylquinolyl amide) ethylester HCl, P 4663²
- Imidar[4,3] isoquinoline 5,6 dihydro-8,9 dimethoxy 3 phenyl and salts, 1531²
- C₁₂H₁₁N₃O₁₃ Cinchoninamide N β hydroxy ethyl 6 methoxy 2 phenyl, 4853²
- β Cinnamotolide α cyano 3,4 dimethoxy 1253²
- 4 Quinolinetarbaric acid 6 methoxy 2 phenyl, Et ester 4884²
- C₁₂H₁₁N₃O₁₃ Butyric acid, γ hydroxy α methyl β γ bis(phenylcarbamyl) γ lactone 1833²
- C₁₂H₁₁N₃O₁₃ α Naphthol orange, propyl, 2093²
- C₁₂H₁₁N₃O₁₃ Phacul, β cyclohexyl, 3,5 di nitrobenzoate, 2987²
- C₁₂H₁₁N₃O₁₃ Meconin, 3,4 dinitro 2-(2,4,6-trimethoxyphenyl) 4519⁴
- Meconin, 3 nitro 2-(2,3,4 trimethoxy-6-nitrophenyl) 4519⁴
- C₁₂H₁₁N₃O₁₃ Anisole 2,4,6 trinitro, compd with 2 C₁₂H₁₁N₃O₁₃ 553²
- Isoquinoline, 1 butyl, picate, 1829²
- Quinolone, butyl, picate, 1829²
- C₁₂H₁₁N₃O₁₃ Δ^1 - 4,5 Pyrazolohydrocarboxylic acid, bis(benzalkylamide), 1826²
- C₁₂H₁₁N₃O₁₃ 1,3-Cyclohexanedione, 2 benzyl 5-phenyl 68²
- 1,3-Cyclohexanedione, 2 methyl 4,5-diphenyl, 68²
- Retenecarboxylic acid and γ salt 513²
- C₁₂H₁₁N₃O₁₃ 9 Anthrol, 10 methoxydimethyl, acetate, 3046² 4547²
- Δ^1 3 Hexenone 4-(ω hydroxybenzyl) 1(ω hydroxyphenyl) 2132²
- C₁₂H₁₁N₃O₁₃ 2 Anthrac acid 9,10 dethoxy 6420²
- 1,1 Indandicarboxylic acid 3 phenyl, di Me ester 1517²
- Truxilic acid, mono-Me ester 1,00²
- C₁₂H₁₁N₃O₁₃ Oxalacetic acid { γ hydroxy 2 methyl(2-methyl)ene } di Et ester 2146²
- C₁₂H₁₁N₃O₁₃ Phenethylamine, 2 bromo N (3,4 dimethoxy-2-nitrophenyl) 4519⁴
- 4-methoxy, 4502²
- C₁₂H₁₁N₃O₁₃ 2 Ethyl-1 (2 ethyl 1(2) benzothiazolylidenemethyl) benzothiazolum bromide 703²
- C₁₂H₁₁N₃O₁₃ 4-Chloro 1 methyl 3-veratrylquinolinium iodide, 106²
- C₁₂H₁₁N₃O₁₃ 2-Ethyl-1 (2-ethyl-1(2) benzothiazolylidenemethyl) benzothiazolum chloride, 703²
- C₁₂H₁₁N₃O₁₃ + 3H₂O 2,4'-Diethoxyflavylium chloride, 515²
- C₁₂H₁₁N₃O₁₃ 2-Ethyl-1 (2 ethyl 1(2) benzothiazolylidenemethyl) benzothiazolum iodide, 703²
- C₁₂H₁₁N₃O₁₃ Retenecarboxamide 513²
- Thymol 6-(2-quinolyl), 4584²
- C₁₂H₁₁N₃O₁₃ 2 Indeneacetonitrile, 3a,4,5,6,7,7a hexahydro α piperonylidene, 3333²
- C₁₂H₁₁N₃O₁₃ 2 Indolecarboxylic acid, 3 (β phenoxy ethyl) Et ester, 4850²
- Laureline, 3654²
- Trilobine, 2731²
- Trilobinol methyl, 2731²
- Truxilamide acid, Me ester, 1500²
- C₁₂H₁₁N₃O₁₃ Berberrubine, tetrahydro-, 5390²
- Bulbocapnine, 742², 2199², 3663²
- Nandamine, 5390²
- C₁₂H₁₁N₃O₁₃ Benzenesulfonic acid *p* phenoxy, β toluene salt 1816²
- C₁₂H₁₁N₃O₁₃ Malonamic acid, α -methyl- α -veratryl, 5671²
- C₁₂H₁₁N₃O₁₃ Meconin 3 nitro-2 (2,4,6 trinitro 1,3,5 trimethylcyclohexyl), 4519⁴
- Meconin nitro 2 (trimethoxyphenyl), 4519⁴
- 2 (2,3,4-trimethoxy 6 nitrophenyl), 4519⁴
- C₁₂H₁₁N₃O₁₃ (See also *Parafuchsin*)
- Acetophenone, β methyl, 6 methoxy-4 quinolyldiazone, 954²
- C₁₂H₁₁N₃O₁₃ 1,4,3 Isothiodiazone, 2 toluene-5- β -tolyl, Ac deriv 153²
- C₁₂H₁₁N₃O₁₃ Cinchoninamide γ (β -aminoethyl) 6 methoxy-2 phenyl, 4883²
- Quinaldine 4-(β acetamidocaulino)-6-methoxy, 704²
- C₁₂H₁₁N₃O₁₃ Benzenesulfonic acid, β phenyl azo-, toluene salt, 257²
- C₁₂H₁₁N₃O₁₃ Skatmanal, phenylhydrazone 208²
- C₁₂H₁₁N₃O₁₃ Bures, 1 (2-naphthyl)-2 thio-6-toluene 3634²
- C₁₂H₁₁N₃O₁₃ Chalcone, α -bromo β -diethyl amino-, 4248²
- C₁₂H₁₁N₃O₁₃ Summenene bromo- 959²
- C₁₂H₁₁N₃O₁₃ Yobyrine, dihydro- 2730² 3003²
- C₁₂H₁₁N₃O₁₃ 1 Butanol, 4-(3 indyl), carbamate 514²
- C₁₂H₁₁N₃O₁₃ Phthalazine, 6,7 dimethoxy-1 veratryl, 207²
- C₁₂H₁₁N₃O₁₃ Dimecotic acid 2,6-dimethyl 4 α -nitrophenyl di Et ester 5426²
- C₁₂H₁₁N₃O₁₃ Malonamide β , β -diacetamido-, 1504²
- C₁₂H₁₁N₃O₁₃ 2 Benz[β]quinoline 1,3,4,6,11,11a hexahydro- picate 5429²
- Quinolone 2 butyl 1,2 dihydro-, picate, 1829²
- C₁₂H₁₁N₃O₁₃ Compd, m 202² (from compd m 208² and acetone, 5428²)
- C₁₂H₁₁N₃O₁₃ Pyridine 3 (2 pyrrolidyl), picronate 300

- C₁₅H₂₃O₂ 2,4 Pentanedione, 3,3 dibenzyl 82¹
- C₁₅H₂₃O₂ Caprophenone, *p*-hydroxy, benzoate 1229¹
- C₁₅H₂₃O₂ Retenesulfonic acid, Me ester 513¹
- C₁₅H₂₃O₂ Acetylhalicylic acid, thymyl ester P 1038¹
- Phenol, 2-(ethoxymethoxy) 4(and 5) propenyl benzoate, 5156⁷
- C₁₅H₂₃O₂ Anhydrophyllodulonic acid dimethyl Me ester, 3070¹
- Benzoic acid, 2 (3 4 - dimethoxyethyl) 6 methoxy Me ester 5158³
- Butyropenone, 4 hydroxy 2 6 dimethoxy benzoate, 4250¹
- α Coccinic acid 2 phenyl di Et ester 3327¹
- C₁₅H₂₃O₂ Chalcone, 4 hydroxy 2 3 4 6 tetramethoxy 5130¹
- Hydrocinnamic acid 3 (β (β carboxy ethyl)phenoxy) 4 methoxy 2983¹
- Pentaerythritol dibenzoate 1801¹
- C₁₅H₂₃O₂ Mecoman, 2 (2 4,6 triketo 1 3 o trimethylcyclohexyl) 4519¹
- Mecoman 2 (trimethoxyphenyl) 4519¹
- C₁₅H₂₃O₂ + 2H₂O Chellol glucoside 110¹
- C₁₅H₂₃BrN₂O₂ Homoveratramide N (3 bromo 4-methoxyphenethyl) 2 nitro- 4502¹
- C₁₅H₂₃ClN₂O₂ Chiten ne chloride 954¹
- C₁₅H₂₃N₂O₂ Ethyl α (1 ethyl 2(1) pyridyl deno)quinadineum iodide 4269¹
- C₁₅H₂₃NO Trimethylphenylammonium 1 naphthoxide 4242¹
- C₁₅H₂₃NO₂ Isovaleramide α hydroxy α toluate 1818¹
- Thebaine HCl 3004¹
- α Toluamide α hydroxy isovalerate α valerate 1818¹
- Valeramide α hydroxy α toluate 1818¹
- C₁₅H₂₃NO₂ Benzoic acid β (β acetamido phenoxy) Bu ester 270¹
- Carbanic acid α hydroxy mol utyl ester α toluate 1818¹
- Morphine α -6-acetyl HCl 3004¹
- C₁₅H₂₃NO₂ Malonanilic acid α -methyl α veratryl 5671¹
- C₁₅H₂₃NO₂ 1 1 2 Ethanetricarboxylic acid 1 phthalimido- tri Et ester 497¹
- C₁₅H₂₃BrNO₂ Sinomenane, bromo- 909¹
- C₁₅H₂₃Br₂HgO₂ Methane bromo(bromomer curthio)bis(3 methyl β phenethyl) 2413¹
- C₁₅H₂₃Br₂N₂O₂ 3 Isopyrrolepropionic acid 5 (bromomethyl) 2 (β bromomethyl) 4 (β carboxyethyl) 3 methyl 2 pyrrolmethyle) 4 methyl HBr 1257¹
- C₁₅H₂₃Br₂O₂ 1,3 Cyclohexanedicarboxylic acid 4 6 dibromo 6 keto 4 methyl 2 phenyl, di Et ester 3327¹
- C₁₅H₂₃INO₂ 1 β Anisyl 3 4 dihydro 6 7 dimethoxy 2 methylisoquinolinium iodide 5676¹
- C₁₅H₂₃N₂ Compd m 174-7° from compd bs 318-20° 5428¹
- Desoxycinchonine 5428¹
- C₁₅H₂₃N₂O (See also Cinchonidine Cinchonine) Cinchotoxin, 1829¹
- C₁₅H₂₃N₂O₂ Cuprene, 1829¹
- Hydratine, dibenzoyl(α ethylpropyl) 2410¹
- Pentane, 2 4-dibenzamido, 4223¹
- C₁₅H₂₃N₂O₂ Acetanilide α , α (propylene dithio)bis- 1487¹
- C₁₅H₂₃N₂O₂ 3 Pyrrolecarboxylic acid, 2 acetyl 3 methyl Et ester β dimethylamino-benzal deriv 3008¹
- C₁₅H₂₃N₂O₂ Acetamide α benzamido N (3 4 dimethoxyphenethyl) 1530¹
- Chitonne 954¹
- Compd m 288-8° from brucidine and perchlorate 4002¹
- Compd, does not m 315°, from brucidine 4002¹
- Ethanol 2 (methyl(γ phenylpropyl) amino) β nitrobenzoate HCl, 2709¹
- 1 Propanol 3 methylphenethylamino- β nitrobenzoate HCl 2709¹
- C₁₅H₂₃N₂O₂ Carbamic acid homopiperonyl dithio- homopiperonylamine salt, 4241¹
- C₁₅H₂₃N₂O₂ Benzonic acid β (nitrophenoxy) β diethylaminoethyl ester HCl 2705¹
- 1 2 Propanediol 3 ethoxy, dicarbamate 684¹
- C₁₅H₂₃N₂O₂ Benzenesulfonic acid β methoxy Me ester compd with antipyrine 3322¹
- C₁₅H₂₃N₂O₂ Nucine 3 carboxymethylene 2 keto hydrate 705¹ 3348¹
- C₁₅H₂₃N₂O₂ Quetenesulfonic acid 3004¹
- C₁₅H₂₃N₂O₂ Acridine 5 amino 7 (β diethyl aminoethyl) 2 nitro and di HCl P 1038¹
- C₁₅H₂₃N₂O₂ Acridine 5 amino(β diethyl aminoethoxy)nitro and di HCl P 1037¹
- Urea 3 bis(β acetamidobenzyl) 5399¹
- C₁₅H₂₃N₂O₂ 2 Naphthylamine 1 2 3 4 tetrahydro 1 methoxy V N dimethyl purate 2139¹
- C₁₅H₂₃N₂O₂ Benzyl(carboxymethyl)dimethylammonium picrate Et ester 91¹
- Propionic acid α (2 4 6 trimethoxyphenoxy) Et ester compd with PhNMe₂, 855¹
- C₁₅H₂₃O₂ 1 2 Cyclohexanediol, 3 methyl 1 2 diphenyl (?) 39¹
- Phenol, β hexyl benzoate 1229¹
- C₁₅H₂₃O₂ 2 Butanone 4 β anisyl 3 β methoxybenzyl (?) 691¹
- C₁₅H₂₃O₂ (See also Crocein)
- 2 Propanol 1 3 diethoxy acetate, 2692¹
- C₁₅H₂₃O₂ Propiophenone 4 hydroxy β (3 4 dimethoxyphenyl) 2 6-dimethoxy 5430¹
- C₁₅H₂₃O₂ Valeric acid 5 (2 4 5 trimethoxy benzyl), 2893¹
- C₁₅H₂₃O₂ Salicylic acid β xyloside Me ester, triacetate 5677¹
- C₁₅H₂₃BrN₂O₂ Methene from cryptopyrrole and Et 4 (β bromovinyl) 5 formyl 3 methyl 2 pyrrolecarboxylate, HBr 1520¹
- C₁₅H₂₃BrO₂ 3 Glucopyranose, α 1 bromo 2 3 6 triacetyl 4 toluenesulfonyl, 689¹
- C₁₅H₂₃INO₂ Codide, iodo- methiodide, 3655¹
- C₁₅H₂₃NO β Caprotoluide -phenyl, 2135¹
- 1 Piperidineethanol α α diphenyl HCl, 4276¹
- C₁₅H₂₃NO₂ α Cresol, ethylpropyl, carbamate 929¹
- Ethanol, 2 (methyl(γ phenylpropyl)- amino), benzoate, -HCl, 2709¹
- 1 Propanol, 3 - methylphenethylamino-, benzoate, HCl, 2709¹
- Propiophenone, α - [(β hydroxy α

- meth- phenethyl methylammonio, P 4090
- Spurofuran 2,4 piperidine 2,6 dione benzohydro-1 phenyl 3333 3334¹
- Spurofuran 2,3 piperidine 2,5 dione hexahydro 1 p tolyl 3333¹
- C₁₅H₂₃NO** See also *Dionine* 5¹ 56
- Dauricine 960¹
- Isouquinine 1 p anisyl 1,2,3,4 tetrahydro-β-dimethoxy 2 methyl 5676¹
- Morphine ethyl 160¹
- Spuro[cyclopropane 1,2 indan] 2 carboxylic acid 3a 4 5 6 7a hexahydro 3 phenylcarbamylmethyl 3334¹
- Tetrandrine 5931
- Thelaine dihydro- 3004
- C₁₅H₂₃NO₂** See also *Sinomenine*
- Phenethylamine 3,4 dimethoxy 5 veratral 363¹
- C₁₅H₂₃NO₃** 4-Aronanuide 2,4,5 trimethoxy 513¹
- C₁₅H₂₃NO₅** Sinomeninestulfonic acid 1532¹
- C₁₅H₂₃NO₄** Acetophenone 3 lutyl 2 hydroxy 3 methyl p nitrophenyl hydrazone 99¹
- Acetophenone 3 ethyl 2 hydroxy 5-propyl p nitrophenyl hydrazone, 930¹
- C₁₅H₂₃ClNO₃** + H₂O See *Dionine*
- C₁₅H₂₃INO₃** Desoxycodine methiodide, 3653¹
- C₁₅H₂₃INO₃** Codone methiodide 3004¹
- C₁₅H₂₃N** Desoxycinchonine dihydro-, 5425¹
- Quinolone 4 [3 ethyl 4 piperidyl] propyl and chloroplatinate, 5429¹ 5
- C₁₅H₂₃N₂O** Cinchonidine dihydro- di HBr, 5815¹
- C₁₅H₂₃N₂O₂** Ethanol 2 [methyl phenyl propylammonio], p ammonobenzoate di HCl 2709¹
- Hydrocupreine 1829¹
- Ketone 2,3,5 dimethyl-4 propionyl 2 pyrrolimethylene 3,5 dimethyl 4 isopropylethyl, and HBr, 3010¹
- Pecurine, N-oxide, 3347¹
- 1 Propanol, 3 methylphenethylammonio, p-ammonobenzoate, HCl, 2709¹
- C₁₅H₂₃N₂O₂** Benzene acid, p - (p ammonophenox), β diethylammonethyl ester, HCl 2 63¹
- Urea, 4 bis(p methoxyphenethyl), 5405¹
- C₁₅H₂₃N₂O₂** 2,2 Indandiacetic acid hexahydro-α keto-, phenylhydrazone, 3335¹
- Nucidine, 2 keto 3 hydroxy, acetate and di perchlorate, 706¹
- C₁₅H₂₃N₂O₄** 4 Isopyrrolpropionic acid 2 - (3-carbethoxy 5 hydroxy 4 methyl-2 pyrrolimethylene) 3 methyl Et ester, 4010¹
- Nucidine 2,3 α keto-, salt with AcOH, 706¹
- Pyrrolicarboxylic acid 5 5 - carbonyl bis(2 4 dimethyl di Et ester and HBr, 5695¹ 5
- 5 5 carbonylbis(2-ethyl 4 methyl, di Me ester, 5400
- 3 - Isopyrrolpropionic acid 5 carbonylbis(2 4 dimethyl 5695¹
- C₁₅H₂₃N₂O₄** Acid from 4 hydroxynucidine and di HBr, 110¹
- Nucyl 3-acetic acid - keto- hydrate 706
- C₁₅H₂₃N₂O₅** Pyrimidine 2 keto 6 methoxy 3-tetraacetyl, lacoonide, 541
- C₁₅H₂₃N₂O₅** Ketone hexahydrate 941
- C₁₅H₂₃N₂O₄** Ionone, 2,4 - dimethoxyphenyl drazone, 3320¹
- C₁₅H₂₃N₂O₄** Adipic acid α, β, γ, δ tetrahydroxy α methyl, bisphenylhydrazone, 4528¹
- C₁₅H₂₃N₂O₄** Theobromine, 1 - (β diethylammonethyl), picrate, 1031¹
- C₁₅H₂₃O₂** Cinnamic acid, boroyl ester, 1233¹
- Valerophenone, α, α - diethyl-β 2 furyl, 5424¹
- C₁₅H₂₃O₂** 2 Camphanecarbinol, wood phthalate, 507¹
- C₁₅H₂₃NO₂** Benzene acid, p 2 - camphanylidene-ammonio, Et ester, 939¹
- Camphor, β hydroxy β - phenylethyl ammonomethylene, 1240¹
- C₁₅H₂₃NO₃** Des N methylidene-methoxydihydro-sinomenine, 3002¹
- 2 Indanacetic acid hexahydro 2 (phenyl carbamylmethyl), 3333¹, 3334¹
- C₁₅H₂₃NO₃** Sinomenine dihydro-, 299¹
- Sinomenol, 299¹
- Spurofuran - 3(2),2' indan] - 2 carboxylic acid, octahydro 5 - keto-, Ph¹112 salt 3334¹
- Veratrylamine N (3,4 dimethoxyphenethyl) and HBr, 3633¹
- C₁₅H₂₃NO₃** 5 Piperidinedicarboxylic acid, 4 keto - 2,6 dimethyl 1 phenethyl, di Me ester HCl, P 1037¹
- Spurofuran 3(2),2' indan] 2 carboxylic acid octahydro 4 hydroxy 5 keto-, Ph¹112 salt 3335¹
- C₁₅H₂₃N₂** Pyrrole methenyltris[ethyl], 3008¹
- C₁₅H₂₃N₂O** Spuro[cyclohexane 1,3 (3 a) indazole] 4,5',6',7' tetrahydro - 2 - phenylcarbamyl, 702¹
- C₁₅H₂₃N₂** Spuro[cyclohexane - 1,3'(3 a) indazole], 4,5,6,7' - tetrahydro 2 - phenylthiocarbamyl, 702¹
- C₁₅H₂₃BrNO₃** Thiochroman, 4 ammonio-, bromocamphorsulfonate, 5425¹
- C₁₅H₂₃BrN₂** Isopyrrole 5 - (bromomethyl) 2 (3 (bromomethyl)methylpropyl 2 pyrrolimethylene)methylpropyl, - HBr, 3010¹ 15
- C₁₅H₂₃INO₃** Desoxycodine, dihydro-, methiodide, 3653¹, 3656¹ 15
- C₁₅H₂₃INO₃** (α β Di p anisyl β hydroxy ethyl)trimethylammonium iodide, 1240¹
- Sinomenol dimethoxy dihydro, methiodide, 299¹
- C₁₅H₂₃N₂** Amine base 210-2¹, from reduction of compd base 215-70¹, 5429¹
- Quinolone 4 [3 ethyl 4 piperidyl] propyl, and chloroplatinate, 5429¹
- C₁₅H₂₃N₂O₂** Ketone 5 3,5 dimethyl 4 propionyl 2 pyrrolimethyl 2 4 dimethyl 3 pyrrolimethyl 3010¹
- Pyrrole propylidenel[acetyldimethyl], 3008¹
- C₁₅H₂₃N₂O₃** Carbanic acid, (p methoxyphenethyl)dithio- p methoxyphenethylamine salt 4241¹
- C₁₅H₂₃N₂O₄** Cinchonine acid 2 isopropoxy, β diethylammonethyl ester, 5243¹
- Cinchonine acid, 2 propoxy, β diethyl ammonethyl ester, 5243¹
- 4 Isopyrrolpropionic acid 2 (3 ethyl-5-methoxy 4 methyl 2 - pyrrolimethylene)-3 5-dimethyl, Me ester, 4008¹
- C₁₅H₂₃N₂O₄** Nucidine, 3 - hydroxy - 2 - keto-dihydro- acetate, 4275¹

- 2 Pyrrolecarboxylic acid, 5,5 methylene bis[4 methyl 3 propyl], 3010^a
 Sinomenine, aminodihydro-, HCl, 2147^a
 —, dihydro-, oxime, 299^a
 C₁₁H₁₅N₂O₂ Dihydro deriv of acid from di hydroacotheline 110^a
 C₁₁H₁₅N₂O₃ 3 Pyrrolecarboxylic acid, 5,5 carbonylbis[2,4 dimethyl, di Et ester hydrazone, 399^a
 C₁₁H₁₅N₂O₃ 9 Fluorylamine dodecahydro perate 511^a
 C₁₁H₁₅O₂ Theolol, mono-Me ether 5458^a
 C₁₁H₁₅O₃ 1,1,3 Propanetricarboxylic acid methyl 2 phenyl tri Et ester 82^a
 C₁₁H₁₅O₃ Monotropiside 5677^a
 C₁₁H₁₅AsO₃ 3 Benzene acid o mercapto 5 d cyclohexylgold deriv 4220^a
 C₁₁H₁₅BrN₂O₂ Lysine N^a benzoyl N^a (α bromocaproil) 2974^a
 Lysine N^a benzoyl N^a α (bromocaproil) 2974^a
 C₁₁H₁₅NO Cinnamamide N methyl 1231^a
 C₁₁H₁₅NO₂ Des N methyldesmethoxydi hydrosinomenine dihydro 3002^a
 C₁₁H₁₅NO₂ Sinomenine tetrahydro- 350^a
 Sinomenol dihydro- 299^a
 C₁₁H₁₅N₂S Cyclohexanone 2 cyclohexyl 4 phenyl 3 thiosem carbazole 5696^a
 C₁₁H₁₅N₂ Methane dicyclohexylphenyl 2713^a
 C₁₁H₁₅BrN₂ Isopyrrole 2 (4,5 dimethyl 3 propyl 2 pyrrolmethyle) 3,5 d methyl 4 propyl dibromide HBr 3010^a
 C₁₁H₁₅INO₂ Sinomenine methyl methiodide 4551^a
 C₁₁H₁₅N₂ Carbazole 9 β diethylaminoethyl 1,2,3,4 tetrahydro 3 methyl P 5249^a
 Isopyrrole, 2 (4,5 diethyl 3 methyl 2 pyrrolmethyle) 4,5 diethyl 3 methyl HBr 3356^a
 —, 2 (dimethylpropyl 2 pyrrolmethyle) dimethylpropyl and HBr 3010^a
 C₁₁H₁₅NO Carbazole 6 β diethylaminoethoxy 1,2,3,4 tetrahydro 9 methyl P 5249^a
 C₁₁H₁₅N₂O₂ Isopyrrole 4 ethyl 2 [4 ethyl 5 (methoxymethyl) 3 methyl 2 pyrrolmethyle] 5 (methoxymethyl) 3 methyl, and HBr 3356^a
 C₁₁H₁₅N₂O Ketone bis(4 ethyl 3,5 dimethyl 2 pyrrol) hydrarone Ac de riv, 5899^a
 C₁₁H₁₅O₂ Undecylic acid α [(carboxymethyl) phenyl] P 970^a
 C₁₁H₁₅NO α Dodeceno-*p*-toluide 5663^a
 C₁₁H₁₅N₂O [1,2 Bundan] 2 one dodecahydro- semicarbazone 3333^a
 Semicarbazide 1,2 dicyclohexyl 4 phenyl 702^a
 C₁₁H₁₅N₂O₂ Lysine, N^a benzoyl N^a leucyl 2974^a
 Lysine, N^a benzoyl V^a norleucyl 2974^a
 C₁₁H₁₅N₂O₂ Tyrosine V (V leucylglycyl) ethyl ester, HCl 2742^a
 C₁₁H₁₅N₂S Semicarbazide, 1,2 dicyclohexyl 4 phenylthio- 702^a
 C₁₁H₁₅N₂O₂ Tripropylamine picrolonate 70^a
 C₁₁H₁₅N₂ Indole 3 amyl 1 β-diethylamino ethyl P 5249^a
 C₁₁H₁₅N₂O Urea, α cyclohexyl α (β methyl amyl) β phenyl, 1809^a
 C₁₁H₁₅N₂O₂ Undecylamide α [(carbamyl methyl)phenyl] P 070^a
 C₁₁H₁₅O₂ Isomargaric acid 1,33
 C₁₁H₁₅O₂ 2 Indanmalonic acid 2 acetonil hexahydro di Et ester 3333^a
 C₁₁H₁₅INO₂ Sinomenine methyl methiodide 4551^a
 C₁₁H₁₅O₂ Isomargaric acid dihydro 1293
 Linolenic acid Me ester 297^a
 C₁₁H₁₅O₂ Clovenic acid di Et ester 1658^a
 Lichestic acid, 4266^a 4267
 Protolichestic acid 4266^a 4267^a
 C₁₁H₁₅NO₂ Sinomenin c acid methine di methyl HCl 4551^a
 C₁₁H₁₅ Methane tricyclohexyl 2713
 C₁₁H₁₅BrN₂O₂ Glycine V (V β α bromo isocaproylamino)isovaleryl]leucyl] 78^a
 Leucine N (N [α β bromo isovaleryl] leucyl]glycyl] 78^a
 C₁₁H₁₅IP Duhexylmethylphenylphosphonium iodide 5662^a
 C₁₁H₁₅O₂ Orthoacetic acid phenyl Et diiso amylester 2135^a
 C₁₁H₁₅O₂ 1 Naphthalenebutyric acid decahydro α,2 dihydroxy α,2,5,5,8a pentamethyl 3368^a
 Sclaretic acid 3327^a
 C₁₁H₁₅BrCl₂N₂O₂ p Bromobenzyl/γ diethyl amino β methoxypropyl]diethylammonium chloroplatinate 5795^a
 C₁₁H₁₅BrO₂ Stearic acid bromoketo, Me ester 71^a
 C₁₁H₁₅ClO₂ Stearic acid chloroketo- Me ester 11^a
 C₁₁H₁₅Cl₂N₂O₂ Benzyl/γ diethylamino β methoxypropyl]diethylammonium chloroplatinate 5395^a
 C₁₁H₁₅N₂O₂ Pelargonic acid β,β ureidobis 430^a
 C₁₁H₁₅N₂O₂ Glycine N (N [β (leucylamino) isovaleryl]leucyl] 78^a
 Leucine N (N [N (β aminoisovaleryl] leucyl]glycyl] 78^a
 C₁₁H₁₅O₂ Oleic acid Me ester 3313^a
 C₁₁H₁₅O₂ Leibonone heptamethyl 85^a
 C₁₁H₁₅O₂ Ether allylctyl 684^a
 2 Hexadecanone 7,11,15 trimethyl, 519^a
 C₁₁H₁₅O₂ Margarinic acid Et ester 5392^a
 Stearic acid Me ester, 277^a
 C₁₁H₁₅O₂ Palmitin β mono 76^a
 C₁₁H₁₅O₂ Phlo onolic acid Me ester 4851^a
 C₁₁H₁₅ 612^a
 C₁₁H₁₅O₂ Chiryl alcohol, 684^a
 1,2 Propanediol 3 (acetyloxy) 684^a
 C₁₁H₁₅Cl₂O₂ 1,2 Benzanthrene 4,5 dicarboxylic anhydride 8,11 dichloro 7,12 dihydro-7,12-diketo- P 3668^a
 C₁₁H₁₅Br₂EgNa₂O₂ See *liferocochrome*
 C₁₁H₁₅Br₂O₂ 3,10 Perylenequinone, dibromo 4873 compd with 56Cl₄ 4874^a
peri Xanthoxanthene, 2,8 dibromo, 1529^a
 C₁₁H₁₅Br₂O₂ See *Lossin*
 C₁₁H₁₅Na₂O₂ Phenolphthalein, tetrasodium deriv, 2193^a 2197^a
 C₁₁H₁₅IO₂ (See also *Lossin* *iodo- Erithrosin*)
 Fluorescein tetrasodium P 560^a
 C₁₁H₁₅N₂O₂ Benzimidazobenzosquinoline 3,4 dicarboxylic anhydride, 7 keto-, 1^a 4412^a
 C₁₁H₁₅ClO₂ 2 Thionaphthencarboxylic acid 5 chloro 1,1 methyl 1,1-carbonylbis, anhydride 3167^a

- C₂₀H₁₃BrO Anthrone, 10-bromo-2 phenyl, 4546²
Xanthene, 9 (α-bromobenzal) 1238¹
- C₂₀H₁₃ClO Fluorene, 9 (chlorophenoxy)methyl
ene) 931⁴
- C₂₀H₁₃ClO₂ 8-Methoxy α naphthofuro[3,2-β]benzopyrylium chloride, FeCl₃ compd, 3340¹
- C₂₀H₁₃ClO₂S Fluorenesulfonyl chloride, benzoyl, 5158²
- C₂₀H₁₃ClS Fluorene, 9 (chloro(phenyl)mercapto)methylene] 931⁴
- C₂₀H₁₃ClS₂ Spiro[ethylene sulfide α 9 fluorene] β chloro β (phenylmercapto) 831²
- C₂₀H₁₃Cl₂FeO₂ 8-Methoxy α naphthofuro[3,2-β]benzopyrylium chloride FeCl₃ compd 3340¹
- C₂₀H₁₃NO Anthraquinone 2 (aminophenyl) P 714² P 5299²
Diphenamide N phenyl 2418²
- C₂₀H₁₃NO₂ Ketone n tro 2 fluoryl phenyl 5158²
- C₂₀H₁₃NO₂ S 2(1) Naphthalenone 1 (2 naphthylmercapto) 1 n tro 4257⁴
- C₂₀H₁₃NO₂ Quinazolin 5 amino- 3648²
- C₂₀H₁₃NO₂ S 2(1) Naphthalenone 1 (2 hydroxy 1 naphthylmercapto) 1 nitro- 4257⁴
- C₂₀H₁₃NO₂ Lutidmic acid 3 (o carboxyphenyl) 6 phenyl 100²
Phenolphthalein 3 nitro- 2995²
- C₂₀H₁₃N₂O Anthracene compd with 1,3,5-trimetrobenzene 1825²
- C₂₀H₁₃N₂O Anthracene picrate 1816¹
Phenanthrene picrate 1816¹
- C₂₀H₁₃N₂O₂ S 2 Naphthol 4 sulfonic acid 1 (1 hydroxy 2 naphthylazo) 6 n tro Na salt 417²
- C₂₀H₁₃ Binaphthyl 944²
- C₂₀H₁₃Br₂N₂O₂ Benzothiazole 1 p bromo amino-5-methyl picrate 104²
Benzothiazole 1 (p bromo N methyl amino) picrate 104²
- C₂₀H₁₃Br₂ Ethylene 1,1 dibromo 2 phenyl 2 (p phenylphenyl) 1516²
- C₂₀H₁₃Br₂O₂ 3,6 Xanthenediol 9 methyl 9 phenyl dibromo deriv 3644²
- C₂₀H₁₃Br₂O₂ Quinone 2,5 di p anisyl 3,6 dibromo- 3635²
- C₂₀H₁₃Br₂Sn Stannane dibromodi 2 naphthyl 3978²
- C₂₀H₁₃Br₂O Xanthene 9 bromo 9 (α bromobenzyl) d bromide 1238¹
- C₂₀H₁₃ClNO₂ Benzamide 5 chloro 2 mercapto, benzoate 931⁴
- C₂₀H₁₃Cl₂O₂ Cresol dichloro α phenyl benzoate 3635²
- C₂₀H₁₃Cl₂Sn Stannane, dichlorodinaphthyl 3978²
- C₂₀H₁₃Hg Mercury dinaphthyl 3975²
- C₂₀H₁₃N₂ 3,9 Perylene diamine P 520² P 1845²
Quinoxaline 2,3-diphenyl, 3001²
- C₂₀H₁₃N₂O₂ 3 Indole[3,2-f]delectridin 8 one 6-methylamino- 2998²
- C₂₀H₁₃N₂O₂ [Δ¹] Bt [Δ¹] pyrroline] 4,4 dione, 2,2-diphenyl 1828²
- C₂₀H₁₃N₂O₂ S Ketone hydroxy(4 phenyl 2 thiazyl)methyl 4 phenyl 2 thiazyl, 2722²
- C₂₀H₁₃N₂O₂ (See also Rhodamine)
3,5 Pyrazoledione, 4 (2 fural) 1,2 diphenyl, 2145²
- C₂₀H₁₃N₂O₂ S 2 Naphthol 3 sulfonic acid 1 naphthylazo, Na salt, 2128²
- C₂₀H₁₃N₂O₂ Fluoran diammodihydroxy, 941²
Fluorescein, 2,7 diamino- 941²
- C₂₀H₁₃N₂O₂ Benzohydroly, 3,5 dinitrobenzoate, 687²
- C₂₀H₁₃N₂O₂ Quinone 2 acetamido 3,6 di amino-5-nitro-, 2130¹
- C₂₀H₁₃O Ketone 2 fluoryl phenyl 5157²
Xanthene 9 benzal 1237²
- C₂₀H₁₃O₂ Thionaphthene, 1 phenoxy 2 phenyl 4264²
- C₂₀H₁₃O₂ o Benzeno[5,10]anthracene 1,4 diol 5,10-dihydro- 5159²
o Benzeno[5,10]anthracene 1,4 dione, 4a,5,10,10a tetrahydro- 5159²
Binaphthol 3986² 4258¹
- C₂₀H₁₃O₂ S 2 Naphthol 1 (1 mercapto 2 naphthoxy) 3330²
2 Naphthol 1,1 thiol is- 3330²
- C₂₀H₁₃O₂ Benzoic acid o-(p phenylbenzoyl) P 5299²
1,2 Chrysenedione 8 ethoxy 1816²
Ethyl ether m 163° of compd m 198² 5418²
- C₂₀H₁₃O₂ (See also Phenolphthalein)
1,2 Benzanthrene 7,12 dione 8,11 dimethoxy 4878²
Benzoic acid phenoxybenzoyl 2140² Al deriv P 714²
[1,1 Binaphthalene] 3,3,4,4 tetrol 1241²
Naphthacenequinone 1,4-dimethoxy 5162²
1,2 p Naphthofuranone 2 van Hal 3340²
- C₂₀H₁₃O₂ S Fluorenesulfone acid benzoyl and Na salt 5108²
2 Naphthol 1,1 sulfonylbis 5673²
- C₂₀H₁₃O₂ Phlorobenzophenone 4 benzoate 4206²
- C₂₀H₁₃O₂ Diacetate m 298-300°, of compd m 337 8° 48° 0²
- C₂₀H₁₃S₂ 2 Naphthyl disulfide 2128²
Thionaphthene 2 phenyl 1 phenylmercapto- 4264²
- C₂₀H₁₃AsN₂O₂ Phenarsazine 1,6 dihydro 1 hydroxy acetate picrate 109²
- C₂₀H₁₃BO Boric acid di naphthyl 928¹
- C₂₀H₁₃Br Ethylene 2 bromo 1 phenyl 1 (p phenylphenyl) 1516²
- C₂₀H₁₃BrO Acetophenone α bromo α α di phenyl 1823²
- C₂₀H₁₃BrO₂ Meconin 2 (bromonaphthyl) 4519²
- C₂₀H₁₃ClO Fluorene 9 p anisyl 9 chloro- 4878²
- C₂₀H₁₃ClO₂ Ethylene sulfide α chloro α phenoxy β,β diphenyl 4264²
- C₂₀H₁₃Cl₂ Ethylene sulfide α chloro β β diphenyl α phenylmercapto 4264²
- C₂₀H₁₃ClNO Benzamide acid N o tolyl 2,4 dichlorophenyl ester, 2147²
- C₂₀H₁₃N Acetonitrile triphenyl 942² disulfate 3960²
2 Anthrylamine N phenyl, 2996²
- C₂₀H₁₃NO Acetonitrile triphenyl, N oxide 942²
Acetophenone α phenyl α phenylamino, 4264²
ketone amino 2-fluoryl phenyl and HCl, 5158²
2 Naphthol 6-naphthylamino, P 5041²
- C₂₀H₁₃NO₂ Diphenamic acid, 2418¹
Oxindole, 3,3 bis(p-hydroxyphenyl), 4264²

- C₆H₅NO₂S Fluoresulfonamide, benzoyl, 210²
- C₆H₅NO₂Naphthalenecarbinol α -vinyl, *p*-nitro-ester 337⁵
- 3 1 Iropenol 3 [1 and 2] naphthyl], α -nitro-esterate 33-3⁵
- 3-nitro-ester 3344
- C₆H₅NO₂Chelidonium 3343⁵
- Benzonitrile 559⁵
- C₆H₅NO₂1,2-Pyran 3 carboxylic acid 2 keto 6 (*p*-nitrophenyl) 4 phenyl Ester 2145⁵
- C₆H₅NO₂Anthranic acid λ (λ 3 pyridyl carbonylaphthylamino) 3000⁵
- C₆H₅NO₂Salicylanilide 3 hydroxy 4 *m*-nitrobenzamide-P 3670⁵
- C₆H₅NO₂Stilbene picrate 1816
- C₆H₅NO₂S Benzothiazole 1 anilino 5 methyl picrate 104⁵
- Benzothiazole 1 λ methylaminopicate 104⁵
- 1 *p*-toluenepicate 104⁵
- Benzothiazole 2 methyl 1 phenyl amino-picate 104⁵
- C₆H₅NO₂Diphenylamine 4 (2,4-dinitrophenoxyl) 2 6 dimethyl 2 4 di-nitro-930
- C₆H₅NO₂Ethylene 1 phenyl 1 (phenylphenyl) 1514⁵ 4235⁵ 4734⁵
- 1-ethylene triphenyl 4236⁵ 5830
- Fluorene 9 methyl 9 phenyl 4239⁵
- Tolylene 9 phenyl 1514⁵
- C₆H₅NO₂S Bis α - α dipyridylargentate persulfate 1755⁵
- C₆H₅NO₂S Bis α - α dipyridylargentous nitrate 1755⁵
- C₆H₅NO₂Butyropheneone *p*-bromo β - γ -methyl-nitro- β -phenyl 506⁵
- C₆H₅NO₂S *m*-Benzeneisofluoranthene 5-bromo 6 hydroxy, benzate 5408⁵
- m*-Benzotoluene 5-bromo 6-hydroxy, benzeneisofluoranthene, 5408⁵
- C₆H₅NO₂1,4-Quinodiol, 5 5-d-bromo 1 1 diethyl 294⁵
- C₆H₅NO₂Acetohydroxamic chloride triphenyl, 942⁵
- Benzamide λ [of and *m*] chlorophenyl λ -o-tolyl 2147⁵
- Benzamide acid λ (*p*-chlorophenyl), o-tolyl ester, 2147⁵
- , λ -o-tolyl o-chlorophenyl ester 2147⁵
- C₆H₅NO₂1,2-Cyclohexenedicarbonyl chloride 3 6-diphenyl 1514⁵
- C₆H₅NO₂3-Cresol dichloro- α -phenyl *p*-toluenesulfonate, 3633⁵
- C₆H₅NO₂Naphthalene 4257⁵
- C₆H₅NO₂Benzene acid benzalphenylhydrazide 5151⁵
- Nicotinamide 1,2-dihydro-2 keto 1 methyl 4 phenyl 6-*p*-tolyl 2143⁵
- Nicotinamide keto-2730⁵, 3003⁵
- C₆H₅NO₂1,2- β -Naphthothiopheneone 2 (β -4-methylaminophenylamino) 5165⁵
- 3 2) Thioanthroneone 2 (*p*-dimethyl amino-phenylamino), 5165⁵
- C₆H₅NO₂Benzoylbenzene, oxime carbanilate 1509⁵
- Naphthylbenzene (*p*-dimethylaminophenyl) nitro- λ , 713⁵
- C₆H₅NO₂Salicylanilide *p* (*m*-hydroxy phenylcarbamyl) 1 3670⁵
- C₆H₅NO₂S 1,4-bisulfonamide λ 1 4 (3 4-dihydroxyphenyl) - 2 - thiazylpropyl], 2722⁵
- C₆H₅NO₂Acetanilide, 2 nitro-4 (*p*-phenoxypheoxy), 1816⁵
- Salicylanilide 3 hydroxy 4 (*o*-hydroxy benzamide), P 3670⁵
- C₆H₅NO₂Nitron 261⁵
- Quinacoline, 2,4-dianilino-, and salts, 5899⁵
- C₆H₅NO₂Skimmianine picrate, 298⁵
- C₆H₅NO₂Acetophenone, 4 nitro 2 (*p*-nitrophenylazo)phenylhydrazide 2133⁵
- C₆H₅NO₂Anthranic acid, 2-glucosylhydrazide λ deriv., 3992⁵
- C₆H₅NO₂Quinalizarin, 2-glucosyl, λ deriv., 3992⁵
- C₆H₅NO₂Acetophenone α -*p*-diphenyl, 1823⁵
- Fluorene, 9 *p*-amyl, 4878⁵
- C₆H₅NO₂Acetic acid diphenylthione, Ph ester 4264⁵
- C₆H₅NO₂Acetic acid, triphenyl, 926⁵
- Quinone, 2,6-ditolyl, 5410⁵
- C₆H₅NO₂Benzene acid, 2 methoxy 4 6 di-phenyl, 3327⁵
- Phenol *p* (*p*-amyl), benzoate 4673⁵
- p*-Toluenic acid, α -(*p*-phenoxypheoxy) 2140⁵
- 3 6 Xanthenediol, 9 methyl 9 phenyl, 3644⁵
- C₆H₅NO₂Benzene acid, *o* (2 methoxy 1 naphthyl) Me ester, 5415⁵
- Ethene[5 10]anthracene 11 12 dicarboxylic acid 5 10-dihydro-, di Me ester, 3646⁵
- Meconin, 2 naphthyl, 4201⁵
- Quinone 2 5 di *p*-tolyl, 4537⁵
- α -Veratric acid 6 (2 hydroxy-1 naphthylmethyl), lactone, 4519⁵
- C₆H₅NO₂Meconin, 2 (hydroxynaphthyl), 4519⁵
- C₆H₅NO₂Anthranol, triacetate 1520⁵
- 4 Chromanone 3 (3,4-dihydroxybenzyl), diacetate, 1534⁵
- Chrys, 3 methyl, diacetate 4250⁵
- Quinone, 2 5 di *p*-amyl 3 6 di hydroxy 3635⁵
- C₆H₅NO₂Vinyl mercaptan β - β -diphenyl α -phenylmercapto-4764⁵
- C₆H₅NO₂*p*-Cresol phenylazo-, compd with BzBr, 3721⁵
- C₆H₅NO₂Acetophenone 4 bromo 2 phenyl azophenylhydrazide 2131⁵
- C₆H₅NO₂1-nitro-*p*-phenylazo-, compd with PhCH₂COC, 3371⁵
- C₆H₅NO₂Acridan, 5 tollyl, 2971⁵
- C₆H₅NO₂Acridan, 5-*p*-amyl 2971⁵
- 10 Methyl β -phenylacridinium hydrous, 2773⁵
- C₆H₅NO₂Acetohydroxamic acid, triphenyl, 942⁵
- Naphthalenecarbinol, α -vinyl, carbanilate, 33 9⁵
- 3 1 Propenol 3 naphthyl, carbanilate, 3729⁵
- C₆H₅NO₂Acetanilide *p* (*p*-phenoxypheoxy), 1816⁵
- Oxamic acid λ naphthyl λ -phenyl, Et ester 294⁵
- 1-nitro-4-nitro-6-ditolyl, 5409⁵
- C₆H₅NO₂(See also *Herberine*)
- Butyropheneone β -2 (uryl)- γ -nitro- β -phenyl 506⁵
- C₆H₅NO₂Quinoxaline 3-amino-1,2-dihydro-2-diphenyl 3001⁵
- C₆H₅NO₂Desoxybenzamide, *p*-nitrophenyl hydrate 2132⁵

- C₂₀H₁₇N₃O₂ Naphthalene, 7 - isopropenyl 1 methyl, picrate, 2988¹
- C₂₀H₁₇N₃O₂ Di *p* toluenesulfonamide, N (2,4-dinitrophenyl), 2727²
- C₂₀H₁₇N₃O₂ Thiazole 4,4 - imined methylene bis(2 phenyl and *dp* HCl 902³
- C₂₀H₁₇N₃O₂ Benzaldehyde methyl[(*p* - nitrophenyl)phenyl]hydrazine 92⁴
- C₂₀H₁₇N₃O₂ 1,3(2,4) Isoquinolinedione, 4 (antipyrilazo) 3648⁵
- C₂₀H₁₇N₃O₂ Alizarin, glucosyl Na deriv., 3992⁶
- Chrysazin glucosyl Na deriv 3992⁷
- C₂₀H₁₇N₃O₂ Porphyrin 2,4 glucosyl, Na deriv., 3992⁸
- C₂₀H₁₇N₃O₂ Quinazolin 2 glucosyl, Na deriv 3992⁹
- C₂₀H₁₇O₂P Ethylenebisphosphonic acid, 2 phenyl 2 (*p* phenylphenyl) 4230¹⁰
- C₂₀H₁₇O₂ Ethane triphenyl 5830
- 1,3,5,7 Octatetrene 1,8-diphenyl 1719¹¹
- C₂₀H₁₇AgN₃O₂ Bis- α -*dp*pyridylargentate by frozen sulfate 1755¹²
- C₂₀H₁₇CuN₃O₂ 2,1 Triazinemercaptan 4 amino-6 benzyl Cu deriv 2730¹³
- C₂₀H₁₇INO₂ Cinchophen 4 hydroxy 6 isodo 5 isopropyl 2 methyl 4854¹⁴
- C₂₀H₁₇N₃ Benzaldehyde benzylphenylhydrazine 92¹⁵
- Quinoxaline 1,2,3,4 tetrahydro 2,3 diphenyl 957
- C₂₀H₁₇N₃O₂ Isoindigotin 1,1-diethyl 294¹⁶
- C₂₀H₁₇N₃O₂ Glycine, (2 phenyl-4 quinolylcarbonyl), Et ester 1000¹⁷
- Quinoxaline 4 (4 acetyl amino) 6 methoxy 2 phenyl 4884¹⁸
- C₂₀H₁₇N₃O₂ 2 Naphthoic acid 3 methoxy 4 hydroxy 2 methoxybenzylhydrazide 2138¹⁹
- C₂₀H₁₇N₃O₂ Retene acetylaminato- 5424²⁰
- C₂₀H₁₇N₃O₂ Anthraquinone 1,4 diacetamido 5,8-dimethoxy 3648
- C₂₀H₁₇N₃ Acetophenone *p* phenylazophenylhydrazine and HCl 2131²¹
- Benzaldehyde methyl(*p* phenylazophenyl) hydrazine 5152²²
- Benzenadazole 2 [α (o aminoamino) o tolyl] 702²³
- C₂₀H₁₇N₃O₂ Triazene 3 (enyl 3 (benzyloxy) 1 (*p* nitrophenyl) 5409²⁴
- C₂₀H₁₇N₃O₂ *p* *p* Dibenzene-sulfonic acid 3,3 bis(4,5 dihydro 5 keto 3 methyl 1 pyrazolyl) 4872²⁵
- C₂₀H₁₇N₃O₂ 2(3) Thiazolone 4 *p* tolyl azine 1532²⁶
- C₂₀H₁₇O₂ Carbinol, anisylidiphenyl 99²⁷
- Hydroquinone 2,6-di-*p* tolyl 3410²⁸
- Isobutyrophenone *p* 2 furyl *p* phenyl 5424²⁹
- 3,5-Octadene-2,7-diol 2,7-diphenyl 74³⁰
- C₂₀H₁₇O₂Pb Triphenyllead acetate 5407³¹
- C₂₀H₁₇O₂ Retenequinone acetyl 5424
- C₂₀H₁₇O₂ 2,4 Xylenol α -phenyl benzenesulfonate 3635³²
- C₂₀H₁₇O₂ Benzene, *p* bis(*p* methoxyphenoxy), 1810³³
- 1,2 Cyclohexenedicarboxylic acid, 3,6-di phenyl 1514³⁴
- Ethano[5,10]anthracene 11,12 dicarboxylic acid, 5,10-dihydro-, di Me ester 3646³⁵
- Hydroquinone, 2,5-di-*p* toloxy, 4537³⁶
- C₂₀H₁₇O₂ *o*-Veratric acid, 6 (2 hydroxy 1 naphthylmethyl), 4519³⁷
- C₂₀H₁₇O₂ 9,9,10(10) Anthracenetetracarboxylic acid (di Me ester 1515³⁸
- 4 Chromanone 3 (3 hydroxyanisal) 7 methoxy acetate 1534³⁹
- 7 hydroxy 3 veratral, acetate 1534
- C₂₀H₁₇O₂ 1 hyllodulin diacetate 3079⁴⁰
- C₂₀H₁₇O₂ Anthraquinone 1 glucosyl 4262⁴¹
- 2,2,3,4 Biphenyltetracarboxylic acid, tetra Me ester 2136⁴²
- C₂₀H₁₇BrO₂ 4,1,4 Cyclohexadienediacetic acid 2 (4 bromo-2 methyl) 3,6 diketone 5 methyl 5410⁴³
- C₂₀H₁₇BrPb Plumbane bromophenylkyl *o*-tolyl 2588⁴⁴
- C₂₀H₁₇BrO₂ *p* Toluylhydroquinone 3,6-di bromo-5-(4 bromo-2 methyl) diacetate 5410⁴⁵
- C₂₀H₁₇BrO₂ Hydratropic acid β 5 dibromo- β (a bromo 2,4 dimethoxybenzyl) 2,4 dimethoxy 4866⁴⁶
- C₂₀H₁₇N Dibenzylamine V phenyl P 522⁴⁷
- C₂₀H₁₇NO Phenol 4 amino-7,6 di-*o*-tolyl 5410
- C₂₀H₁₇NO Cinchophen Bu and isobutyl esters P 513⁴⁸
- Cinchophen 6 methyl Pr ester P 5513⁴⁹
- Phenethyl alcohol α methyl 1 naphthalene-carbamate 1818⁵⁰
- C₂₀H₁₇NO Cinchophen 6 ethoxy Et ester 4884⁵¹
- Cinchophen 4 hydroxy 5 isopropyl 2 methyl 4884⁵²
- 6 methoxy isopropyl and Pr ester 4884⁵³
- 2 Naphthol 1 (α dimethylaminopyridyl), 2715⁵⁴
- Naphtho 3,5 xylide hydroxy 4 methoxy, 242⁵⁵
- C₂₀H₁₇NO Indeno[3,2, β]quinoline 1,2,7,8 tetramethoxy HCl 1203⁵⁶
- 4,1) Quinolone 1 acetyl 2,3 dihydro-3 veratral 106⁵⁷
- C₂₀H₁₇NO Chel donane 1251⁵⁸ 4003⁵⁹ 4004⁶⁰
- Protopine 1203⁶¹
- β Quinol neryl oxalic acid 2 *p*-anisyl 1,4 dihydro-4 keto 6 methoxy, Et ester, 1830
- C₂₀H₁₇NO Hydrastinum salt m 334⁶² 2150⁶³
- C₂₀H₁₇NO Ethanol 1,2 bis 3,4 methylenedioxyphenyl 2 piperonyldeneamino-di Ac deriv 1240⁶⁴
- 1 Indanone 4,5 dimethoxy 2 (6 nitro veratral) 1203
- C₂₀H₁₇NO Anthraquinone 9 imonium salt 1 hydroxy 8,10,12,14 4261⁶⁵
- C₂₀H₁₇NO Anthraquinone-9 imonium salt, di hydroxyglucosyl 4261⁶⁶
- C₂₀H₁₇NO Anthraquinone 9 imonium salt, 1,5,8-trihydro 2 glucosyl 4261⁶⁷
- C₂₀H₁₇N₂ Ethenetriamine *N,N,N'* triphenyl, 2112⁶⁸
- C₂₀H₁₇N₂O 1 Naphthylamine N (3,4 di methoxyphenethyl) 2,4 isitro-, 540⁶⁹
- Naphthalene 2 *tert* butyl, picrate 944⁷⁰
- 6 ethyl 1,4-dimethyl, picrate, 961⁷¹
- tetramethyl, picrate 2150⁷²
- C₂₀H₁₇N₂O Naphthalene 6 ethyl 1,4 dimethyl, stybuate, 961⁷³
- C₂₀H₁₇N₂O 2,9 Pyridindole, 3,4-dihydro 1 isopropyl picrate, 301⁷⁴
- 2,9-Pyridindole, 3,4-dihydro-1 propyl picrate 301⁷⁵
- 1 ethyl 3,4-dihydro-9-methyl, picrate 301⁷⁶

- C₂₀H₁₁O₅P Ethaneephosphonic acid 2 phenyl 2 (p-phenylphenyl), 4239^a
- C₂₀H₁₅BrNO Chalcone α bromo-β 1 piperidyl 4248
- C₂₀H₁₅CaF₃N₃Si 5862^a
- C₂₀H₁₅CdF₃N₃Si 5862
- C₂₀H₁₅Cl₂N₂ Quinaldine 3-chloro-α-diethylamino-8-sodo-4 p isodanilino- 2430^a
- C₂₀H₁₅Cl CoN. 3587^a
- C₂₀H₁₅CLN₂NI 3587^a
- C₂₀H₁₅ClO₂ Anisic acid 3 3 (β β-dichloro-ethylidene)bis di Me ester 5412^a
- C₂₀H₁₅Cl₂MoN. 589^a
- C₂₀H₁₅CuF₃N₃Si + H₂O 5862^a
- C₂₀H₁₅CuIN Tetraarylnocuprine iodide 682^a
- C₂₀H₁₅F₃N₃Si 5862^a
- C₂₀H₁₅F₃N₃SiZn 5862^a
- C₂₀H₁₅IN Dibenzyl 1 methylpyridinium iodide 5429^a
- C₂₀H₁₅INO, Coptisine tetrahydro-(?) methiodide 516^a
- C₂₀H₁₅IN, 1 Methylpyridinium iodide compd with p p-toluidiamine 5426^a
- C₂₀H₁₅N₂O Benzamide \ ethyl \ (β 2 quinolyl ethyl) 4270^a
- C₂₀H₁₅N₂O₂ 3 3 Bisoxazole 1 1-diethyl 3 hydroxy 94^a
- Phthalimide 1 (α-monoaphthyl)hexahydro-, Ac deriv 701^a
- 4 Quinolonecarbamate acid, 6 ethoxy 2 phenyl Et ester 4884^a
- C₂₀H₁₅N₂O₂ 3 α \aphthol orange butyl 2993^a
- C₂₀H₁₅N₂O₂S₂ Phenoldisulfonamide, dimethyl, 691^a 1^a
- C₂₀H₁₅N₂O₂ + 2H₂O Aniline salt m 300^a of acid from ergosterol 114
- C₂₀H₁₅N₂O₂ o-Toluidimide α-amino-α (α-amino-anilino) 702^a
- C₂₀H₁₅N₂O₂ Quinone acid p-dimethylamino-benzalhydranle 953^a
- C₂₀H₁₅N₂O₂ 2 3 5 6-Tetrahydro-8,9-dimethoxy 1 benzol[pyrro]cobium picrate 1531^a
- C₂₀H₁₅O₂ Retene acetyl 5424^a
- C₂₀H₁₅O₂ Reteneacetic acid Me ester 513^a
- Retenequinone, ethyl 5424^a
- Retenol, acetate, 513^a
- C₂₀H₁₅O₂ Benzil, compd with cyclohexanone, 2992^a
- Δ¹-3-Heptenone 4 (m-hydroxybenzyl) I (m-hydroxyphenyl), 2132^a
- C₂₀H₁₅O₂ Cyclobutane, 1,2 dimethyl 3,4 bis(3,4 methylenedioxymethyl), 4271^a
- Truxillic acid, mono-Et ester 1000^a
- C₂₀H₁₅O₂ Styraetol, dibenzal, 5149^a
- C₂₀H₁₅O₂ 4-Chromanone, 3 (3 hydroxy-4 methoxybenzyl)-7 methoxy, acetate, 1534^a
- Cubehin, 4277^a
- C₂₀H₁₅O₂ Kolocatechin, 173^a
- C₂₀H₁₅Si Silicose, ethylphenyl 4530^a
- C₂₀H₁₅Br 2 Hexene 1 bromo-5 5-dimethyl 1 1 diphenyl, 487^a
- C₂₀H₁₅BrN₂O₂ Isopyrrole, 2-[5-bromo-3-(β β-dimethoxyethyl)-4 methyl 2 pyrrol methylene]-4-(β β-dicarboxyethyl) 3 5-dimethyl, HBr, 301^a
- C₂₀H₁₅BrO₂ 2 5-Toluenediacetic acid, 4 (4 bromo 2-methyl) 3 6-dihydroxy 5410^a
- C₂₀H₁₅N₂O₂ Imides[4 3-alisoquinoline 5 8-dihydro-8 9-dimethoxy 3 phenyl methoxide, 1531^a
- C₂₀H₁₅NO Acridine, 10-benzoyl 1 2 3 4 4a 5,10,10a-octahydro-, 5675^a
- Anthrone, 2 methyl 10-(1 piperidyl), 4546^a
- Benzamide, V (1,2,3,4,4a,9a hexahydro-9-fluoryl), 511^a
- Camphor, 3 (1 naphthylimino), 5627^a
- Chalcone, α-1 piperidyl, 3000^a
- Retene, acetyl, oxime, 5424^a
- Thymol, 6-(4 methyl 2-quinolyl), 4884^a
- C₂₀H₁₅NO₂ 2 Naphthol, 1 (α-dimethylamino-p-methoxybenzyl), 2710^a
- C₂₀H₁₅NO₂ Homotriolobane 2731^a
- Trioloban(methyl)methine, methyl, and HCl, 2731^a
- Truxilamidic acid, Et ester, 1000^a
- C₂₀H₁₅NO₂ (See also Papaverine)
- Canadine, 3345^a 4003^a
- Laurepukane, dimethyl, 3603^a
- 4(1) Quinolone 1 acetyl 2,3-dihydro-3 versetyl, 106^a
- C₂₀H₁₅NO₂ 4 Chromanone, 3-(3 hydroxy-4 methoxybenzyl) 7 methoxy, oxime, acetate, 1534^a
- C₂₀H₁₅NO₂ 3 Papaverinesulfonic acid, 1032^a
- C₂₀H₁₅NO₂ Anthraquinone-9-monoam salt by drate, 1 hydroxy 2 glucosyl, 4261^a
- C₂₀H₁₅NO₂ Ethanol, 2 amino-1 2 bis(3,4 methylenedioxymethyl), acid tartrate 1240^a
- C₂₀H₁₅P Pentaphosphine, dimethyltriphenyl, 2702^a
- C₂₀H₁₅ Retene, ethyl, 5424^a
- C₂₀H₁₅Br₂O 3 Heptanol, 1 2, 6 7-tetrabromo-α-methyl 1 7-diphenyl (?), 923^a
- 3 Hexanol, 1,2,5 6-tetrabromo-3 4-dimethyl 1 6-diphenyl (?), 923^a
- C₂₀H₁₅ClNO₂ Triolobane, methochloride 2731^a
- C₂₀H₁₅NO₂ Laureline, methiodide, 3603^a
- Pukateone, methyl, methiodide, 3603^a
- Triolobane, methiodide, 2731^a
- Triolobanol methyl, methiodide 2731^a
- C₂₀H₁₅IN₂ 1 Methylpyridinium iodide, compd with p p-stilbene amine 5426^a
- C₂₀H₁₅N₂ Quinolone, 4 amino 3 ethyl 2 propyl, and HCl, 334^a
- C₂₀H₁₅N₂O₂ See Diocaine Golemine
- C₂₀H₁₅N₂O₂ 1 2 Cyclohexanediol, dicarbonylates, 921^a
- Lysine, V, α, α'-dibenzoyl, 1534^a
- 4(1)-Quinolone 1 acetyl 2,3-dihydro-3 versetyl, oxime, 106^a
- C₂₀H₁₅N₂O₂ Buacetyl, bis(α toluylhydrazonol), 1821^a
- C₂₀H₁₅N₂O₂ Acridine 5-amino 2 nitro-7 (β 1 piperidylethoxy), and di HCl, P 1038^a
- Oxazone, decomps 205^a (cor for tetra acetylhydroxyglucal and PhNH\H₂, 4223^a
- C₂₀H₁₅N₂O₂ Arginine dibenzoyl, 1034^a
- Succinamide, p p-diacetamide-, 1504^a
- C₂₀H₁₅N₂O₂ Benzol[pyrro]cobine, 1,2 3 5 6,10b hexahydro 8 9 dimethoxy, picrate, 1531^a
- C₂₀H₁₅O₂ 3 4 1 3 Heptadienol, 5-methyl 1,7-diphenyl (?), 923^a
- 3 3 Hexadienol 3,4 dimethyl-1 6-diphenyl (?) 923^a
- 1 Hexan-1-ol 5 5-dimethyl 1,1 diphenyl, 487^a
- C₂₀H₁₅O₂ Acetoacetic acid, α,α-dibenzyl, Et ester 82^a
- Enanthophenone, p hydroxy, benzoate, 1229^a
- 3 Heptanol 1 2 6 7-diepoxy 5-methyl 1,7 diphenyl (?) 923^a

- 3 Hexanol, 1,2,5,6-diepoxy 3 4 dimethyl 1 6-diphenyl (?), 923¹
- C₂₀H₂₀O₅ 2 Naphthol 1 2 3 4 tetrahydro- sul-
fite, 3964¹
- C₂₀H₂₀O₅ Adipic acid β γ diphenyl di Me
ester, 98¹
- β Toluidyldroquinone, 5 (2-methyl) diac-
tate, 5410¹
- C₂₀H₂₀O₅ Anthrone 10-ethyl 2,3,6,7-tetra-
methoxy, 4538¹
- Isophthalic acid 4-methoxy 6-methyl 2
phenyl, di Et ester 3327¹
- Rhammitol, dibenzylidene- 84¹
- C₂₀H₂₀O₅ Acetic acid, α α (β laphenylene-dioxy)-
bis, di Et ester 4253¹
- 1,8 Octanedione, 1 8 bis(2,4-dihydroxy
phenyl) P 2737¹
- C₂₀H₂₀O₅ Acid m 157° from (dimethoxy-
phenyl)succinic anhydride and m C.II,
(OMe), 4866¹
- Flavanone 4 4,5,7 pentamethoxy
3979¹
- Hydratropic acid β (2,4-dimethoxybenzyl)-
2 4-dimethoxy, 4861¹
- C₂₀H₂₀O₅ Acetyl deriv m 175° of acid m
202°, 1499¹
- C₂₀H₂₀MoN₂S 3587¹
- C₂₀H₂₀NO Camphor 3 (1-naphthylamino)
5350¹ 5627¹
- Propiophenone β phenyl α 1-piperidyl, 91¹
3000¹ 3641¹, 42 6
- C₂₀H₂₀NO₂ 1 Cyclopentanecarboxylic acid, 3 methyl
1 (2-asphylicarbonylmethyl) 3319¹
- Spiro[cyclopropane 1 2 indan] 2 3 di-
carbamate hexahydro 2-methoxy
N-phenyl, 3330¹
- Trilobismethylmethane dihydro- 2731¹
- C₂₀H₂₀NO₂ Trimethyl 2-naphthylammonium β
toluenesulfonate 4545¹
- C₂₀H₂₀NO₂ Trilobismethylmethane 2731¹
- C₂₀H₂₀NO₂ Ethanol 2-amino 1 2 di-β anisyl
di Ac deriv, 1240¹
- C₂₀H₂₀N₂O₅ Dimacrotic acid 4 (3,5-dimethoxy-β-
tolyl) 1,4-dihydro 2 6-dimethyl
di Et ester 5426¹ 5427¹
- C₂₀H₂₀BrNO 1-Benzyl 1-phenacylpiperidinium
bromide, 91¹
- C₂₀H₂₀FeN₂O₅ 3586¹
- C₂₀H₂₀IN₂ 1-Methylpyridinium iodide compd
with α α bis-β-toluidine 5426¹
- C₂₀H₂₀N₂O₅ Crotonoxylide β-dimethylamino
2125¹
- Deoxyquinone 5429¹
- Propiophenone, β phenyl-α 1-piperidyl ox-
ime, 3000¹
- C₂₀H₂₀N₂O₅ See Quinidine Quinine
- C₂₀H₂₀N₂O₅ β-Crotonophenetic acid β-phenetic
diac- 2126¹
- Yohimbic acid, 2148¹, 2149¹
- C₂₀H₂₀N₂O₅ Chitamine Me ester 954¹
- Ethanol 2-methyl-β-phenylbutylamino β
nitrobenzoate 2709¹
- Oxamide, N,N-bis(β-methoxyphenethyl)-
5403¹
- 1-Propanol 3 [methyl(γ-phenylpropyl)-
amino], β-nitrobenzoate, HCl 2709¹
- Quinn, peroxide, 3322¹
- C₂₀H₂₀N₂O₅ Hydrocinamic acid 2 4 5-tri-
methoxy, amalsulphamide 5403¹
- 1,2-Propanediol, 3-propoxy, dicarbamate
684¹
- C₂₀H₂₀N₂O₅ Quininesulfonic acid and HCl,
3004¹ *
- C₂₀H₂₀N₂O₅ See I-ercusine
- C₂₀H₂₀N₂O₅ Acridine 5-amino 7-(γ-diethylamino-
propoxy) 2-nitro- and di-HCl, P 1038¹
- C₂₀H₂₀N₂O₅ Glucose 4 6-ethylidene-, phenyl
osazone 5401¹
- C₂₀H₂₀N₂O₅ Urea, α,α-isobutenylidenebis[β 2,5-
dihydroxybenzyl] 5390¹
- C₂₀H₂₀N₂O₅ 3-Alamine, N {N {V {V 2-naphtha-
lenesulfonylalanyl}glycyl}glycyl}, 2741¹
- Alamine N {N {N {N 2-naphthalenesul-
fonylglycyl}alanyl}glycyl}, 2741¹
- Glycine N {N {N {N 2-naphthalenesul-
fonylalanyl}glycyl}alanyl} 2741¹
- C₂₀H₂₀N₂O₅Zr + 6H₂O, 3926¹
- C₂₀H₂₀O₅ Isosmethole 691¹
- Phenol β-heptyl benzoate 1229¹
- C₂₀H₂₀O₅ (See also Crocin)
- 2 6-Anthradiol 9 10 diethyl 9 10-dihydro
3 7-dimethoxy 4538¹
- Cyclobutene 1 2 bis(4-hydroxy m-anisyl)-
3 4-dimethyl 4277¹
- C₂₀H₂₀O₅ Phyllocladonic acid trimethyl* Me-
ester 3979¹
- C₂₀H₂₀O₅ Glucoside β-phenyl tetraacetate
1232¹
- Sabicylic acid thamnoid Me ester tri-
acetate 5677¹
- C₂₀H₂₀O₅ Sacchylc acid 2 3 4-O-triacetyl β
glucoside Me ester 5677¹
- C₂₀H₂₀ClN₂O₅ See Percaine
- C₂₀H₂₀NO 1-Piperidinethanol α-benzyl α-
phenyl HCl, 4276¹
- C₂₀H₂₀NO₂ o-Cresol 4-butyl 6-ethyl carbam-
ate 929¹
- Lithanol 2-methyl β-phenylbutylamino)-
benzoate HCl 2709¹
- Indothymol 5431¹
- 1-Propanol 3 [methyl(γ-phenylpropyl)-
amino] benzoate, HCl 2709¹
- Quinadic acid menthyl ester 4549¹
- C₂₀H₂₀NO₂ Butyramide γ-phenoxy N-(β-phen-
oxybutyl) 1832¹
- C₂₀H₂₀NO₂ Dimacrotic acid 1 4-dihydro 2 6-
dimethyl-4-tolyl di Et ester 5426¹
- Papaverine tetrahydro 299¹
- banomene-achro-methine and HCl 3003¹
- banomene-rosco-methine 3003¹
- banomene-violet-methine 3003¹
- Spiro[cyclopropane 1 2 indan] 2-
carboxylic acid hexahydro 2(or 3) meth-
oxy-3-phenylcarbonyl, 3330¹
- C₂₀H₂₀NO₂ banomene (hydroxymethyl),
2147¹
- C₂₀H₂₀NO₂ Lithanol 2-amino-1 2-di-β anisyl
acid tartrate 1240¹
- C₂₀H₂₀N₂O₅ Prodigiosin 311¹
- C₂₀H₂₀N₂O₅ 2 4-Pyrroledicarboxylic acid 5-
formyl-3-propyl di Et ester phenyl
hydrazone 3010¹
- C₂₀H₂₀N₂O₅ Hydroquinone 3004¹ 3067¹
- 1-Propanol, 3 [methyl(γ-phenylpropyl)-
amino], β-nitrobenzoate HCl 2709¹
- C₂₀H₂₀N₂O₅ 2 4-Pyrroledicarboxylic acid, 5-(4-
ethyl 3,5-dimethyl 2-isopropylidene-
methyl)-3-methyl, di Et ester, and
HBr 112¹, 113¹
- Sinomene-achro-methine, oxime 3003¹
- C₂₀H₂₀N₂O₅ Piperazine, 2,3,5,6-tetramethyl
bis(phenylsulfonyl), 4272¹
- C₂₀H₂₀N₂O₅ 4-Isopropylpropionic acid, 2 [3-(β-
carboxyethyl)-5-hydroxy-4-methyl-
2-pyrrylmethylene] 3,5-dimethyl,
di Me ester, 2433¹

- C₂₁H₃₃O₂ Palmitic acid, α acetyl β keto-, Et ester, 4267^a
- C₂₁H₃₃O₂ Aldonic acid, heptamethyl, Me ester, 2118^a
- C₂₁H₃₃BrO₂ Stearic acid bromoketo-, Et ester 71^a
- C₂₁H₃₃ClO₂ Stearic acid, chloroketo- Et ester 71^a
- C₂₁H₃₃N Cyclohexylamine Δ (β amyl Δ -non enylidene) 1b09^a
- C₂₁H₃₃N₂O₂ Aniline N [β [(β -l ethylaminoethyl)ethylamino]ethyl] 4 - isopropoxy 3 methoxy, P 2151^a
- C₂₁H₃₃N₂O₄ Isovaleric acid β [(V) Δ (N β aminoisovaleryl)glycyl]leucylglycylamineol 78^a
- Isovaleric acid β [(V) Δ (V al)glycyl]leucylglycylamineol 78^a
- C₂₁H₃₃N₂O₄ Leucine N [Δ (N glycyllleucyl)glycyl] isobutyl ester HCl 2*42^a
- C₂₁H₃₃O₂ Agathene, dihydroxytetrahydro 2136^a
- Octadecene acid Et ester 913^a
- Oleic acid Et ester 3998 462^a
- Sclareol dihydro 33.0 36.8^a
- C₂₁H₃₃O₂ Crocetin tetrahydro 3142^a
- C₂₁H₃₃O₂ Capric acid α α dihydrobis 982^a
- C₂₁H₃₃O₂ Phlosonic acid di Me ester 4801^a
- C₂₁H₃₃O₂ Cellobioside heptamethyl β methyl 8.1 3829^a
- Glucose, heptamethyl 1 β methyl 6 α glucosido 301^a
- Mannoside heptamethyl 4 β galactosido- α methyl 4529^a
- heptamethyl 4 β glucosido- α methyl 4628^a
- C₂₁H₃₃O₂P Menthyl phosphate 3637^a
- C₂₁H₃₃O₂N₂ Piperidine Ge lerv 56f2^a
- C₂₁H₃₃O₂ (See also *Arachidic acid*)
- Lucosanoic acid 277^a
- 1 Octadecanol acetate 3921^a
- Stearic acid Et ester 3313 461^a 392^a
- C₂₁H₃₃O₂P₂ Menthyl pyrophosphate 363^a
- C₂₁H₃₃I Eicosane 1-iodo 277^a
- C₂₁H₃₃N Nonylamine β -amyl N cyclohexyl and HCl 1809^a
- C₂₁H₃₃N₂O 2 Hexadecanone 7 11 13 trimethyl semicarbazone, 519^a
- C₂₁H₃₃O Crocetane 5142^a
- Eicosane 483^a
- C₂₁H₃₃N₂O₂ 1,4 Piperazinediethanol α α di isomethyl- α α dimethyl and di HCl 517^a
- C₂₁H₃₃N₂O₂ 1,4 Piperazinediethanol, α α bis (isomoxymethyl) and di HCl, 517^a, 518^a
- C₂₁H₃₃O₂ Eicosanol 277^a
- C₂₁H₃₃ClNO₂ Tetraisoamylammonium perchlorate, 2620^a
- C₂₁H₃₃ClN₂O₂Pt 2 (β Methoxyethyl) 1 1 di methylpiperidinium chloroplatinate 1814^a
- C₂₁H₃₃ClN₂O₂Pt Choline, valeryl, chloroplatinate 3315^a
- C₂₁H₃₃N Tetraisoamylammonium iodide, 2626^a
- C₂₁H₃₃As₂Cl₂ Methyltripropylarsonium iodide Cd₂ deriv, 1483^a
- C₂₁H₃₃As₂Cl₂Pt Methyltripropylarsonium chloroplatinate, 1483^a
- C₂₁H₃₃CuN₂O₂ 3220^a
- C₂₁H₃₃BrN₂O₂SiW₆ Choline, bromo-, silicotungstate 65^a
- C₂₁H₃₃N₂O₂SiW₆ Choline silicotungstate, 65^a
- C₂₁H₃₃BrO₂ Anthraquinone, 1 benzoyl, tribromo deriv, 3990^a
- C₂₁H₃₃N₂O₂ 6,11 β Anthrathiazole-dione 2 (m ntophenyl) nitro deriv, 2724^a
- C₂₁H₃₃CIN 3 1 crylenetric 9 chloro, P 304^a
- C₂₁H₃₃Cl₂N₂O₂ 6(2) meso-Anthrappyrzalone 3- (dichlorobenzoyl) P 969^a
- C₂₁H₃₃I₂O₂ Salicylic acid tetraiodosulfone phthalene 511^a
- C₂₁H₃₃N₂O₂ 6 11 β Anthrathiazole-dione 2 (m ntophenyl) 2724^a
- C₂₁H₃₃O₂ 1 β Naphthothienecarboxylic acid 2- α -carboxybenzoyl cyclic anhydride 5167^a
- 3 Thiophanthrenecarboxylic acid 2- α -carboxybenzoyl anhydride 5167^a
- C₂₁H₃₃ClO₂ 6 Anthra[1 9 β]furan 6 one 5-chloro-1; 4enyl 4255^a
- C₂₁H₃₃ClO₂ Dibenz[β]thiophanthrene 6 13 dione 3 chloro 1 methyl 5166^a
- C₂₁H₃₃NO₂ Anthrophenyl- α anthraquinonyl ketone oxime 2996^a 3336^a
- Naphtho[1 2 3 β]morphanthridine α 9 dione 5422^a
- C₂₁H₃₃NO₂ Naphth[2 3 α]acridine 5 8 13(14) trione P 1098^a
- C₂₁H₃₃BrN₂O₂ Phthalax 1 one, 2 6-dibromo-4-nitro 3 phenyl 4 methyl picrate 4273^a
- C₂₁H₃₃CO₂ + 6H₂O 17.06^a
- C₂₁H₃₃ClNO₂ 1 Anthraldehyde 4-chloro 9 10 dihydro 9,10-diketo, N phenyloxime 3336^a
- C₂₁H₃₃ClO₂ 2 Anthra[9 1 8] 6 furanoxyl 2 (β chlorophenyl) 2 hydroxy 3999^a
- C₂₁H₃₃Cl₂N₂O₂ Phthalax 1 one 2 6-dichloro-4-nitro 3 phenyl 4 methyl picrate 4273^a
- C₂₁H₃₃Cl₂O₂ 2 Thionaphthene-carboxylic acid 1 1 carbonylbis(5 chloro 3 methyl) 5167^a
- C₂₁H₃₃N₂O₂ 6 11 β Anthrathiazole-dione, 2 (m ntophenyl) 2724^a
- C₂₁H₃₃N₂O₂ 6(2) meso-Anthrappyrzalone 2 (α -carboxyphenyl) P 9576^a
- C₂₁H₃₃O₂ Benzene acid α (9 10 dihydro 9,10 diketo 1 anthryl) P 304^a
- C₂₁H₃₃O₂ 1 β Naphthothienecarboxylic acid 2- α -carboxybenzoyl 5167^a
- 3 Thiophanthrenecarboxylic acid 2- α -carboxybenzoyl 5167^a
- C₂₁H₃₃O₂ 2 Thionaphthene-carboxylic acid 5-ethoxy 1 1' carbonylbis anhydride, 5167^a
- C₂₁H₃₃O₂ Spiro[isobenzofuran 1(2) 9 xanthene] carboxylic acid, 6 hydroxy 2 keto, 3144^a
- C₂₁H₃₃AgN₂O₂ 7 Dindolopyridinecarboxylic acid 6 13 dihydro 6 13-diketo, Et ester Ag deriv, 1031^a
- C₂₁H₃₃ClO₂ 2 Naphthoic acid 3 (α -chloro 3 methyl 1 thionaphthene)carbonyl 5166^a
- C₂₁H₃₃ClN₂O₂ Sn 7 Dindolopyridinecarboxylic acid 6 13 dihydro-6 13 diketo-, Et ester, complex from SnCl₄ 1031^a
- C₂₁H₃₃N Dibenzacridine, 704^a
- C₂₁H₃₃NO Naphtho[1 2,3 β]morphanthridine 9(5)-one, 5422^a
- C₂₁H₃₃NO₂ 1 Anthraldehyde 9 10 dihydro-9,10-diketo, V phenyloxime, 3336^a
- Anthranilic acid, N (10 keto 9(10) anthryl idene) 5422^a
- Anthraquinone, 1 benzoyl monoxime, 3336^a
- 1 Anthraquinonecarboxamide 2996^a
- 1 Anthracene acid, 9 10-dihydro 10-keto-9 phenylamino, 5422^a

- C₇H₁₁NO₄ 2 Anthraquinonecarboxylic acid 1 amino-Ph ester P 2438⁹
- C₇H₁₁NO₄ 1 1 Anthracenedicarboxylic acid 10 dihydroxy mono- γ lactone pyrrolidine salt 697¹
- C₇H₁₁NO₄ Benzothiazole 4 methyl- α -(β -nitrobenzylamino) 1 (β -nitrophenyl) nitro deriv 1200²
- C₇H₁₁NO₄ Ethanol 1 (2,4-dinitrophenyl) 2 (4,3-trinitrophenyl) benzoate 508³
- C₇H₁₁NO₄ 2 Anthra[9,10] 6 furanoxyl 2 hydroxy 2 phenyl 3990⁴
- C₇H₁₁NO₄ Fluorene 9 phenylethynyl 1815⁵
- C₇H₁₁BrClO₃ Propane 1 (β -bromophenyl) 3-chloro-3,3-diphenyl 1001⁶
- C₇H₁₁ClNO₃ 2,3 Diphenyl 6 nitrobenzopyrylenium perchlorate 4883⁷
- C₇H₁₁ClO₃ Cresolsulfonaphthalein tetrasodium 311⁸
- C₇H₁₁N₂O Compd m Su² from phenanthrenequinone and α -phenylcarbohydrazide 5634
- C₇H₁₁N₂O₄ Anthraquinone 1 amino 2 (phenyliminomethyl) 94⁹
- 2,4-ox-Dibenzophenazinediol 11 (or 12) methyl 1244¹⁰
- 8 Iodo[3,4] 1 azatridin 3 one 6 acetamido 2998¹¹
- C₇H₁₁N₂O₄ Anthraquinone aminobenzamide P 36¹²
- C₇H₁₁N₂O₄ 1² Oxazole 4 5 epoxy 2 (m nitrophenyl) 4,3-diphenyl 290¹³
- C₇H₁₁N₂O₄ Benzothiazole 4-methyl-5-(β -nitrobenzylamino) 1 (β -nitrophenyl) 1200¹⁴
- C₇H₁₁N₂O₄ Benzil 3,4-methylenedioxy 2,4-dinitrophenylhydrazide 1243
- Isoquinoline 1 phenyl picrate 9¹⁵
- C₇H₁₁N₂O₄ Fthalal 1 one 4 nitro 3 phenyl-4-methyl picrate 42¹⁶
- C₇H₁₁O Acetophenone α -fluorenyl, 91¹⁷
- Iodone 2,3-diphenyl 3330¹⁸
- C₇H₁₁O₃ Xanthene 9 (1¹) thionaphthyl 2144¹⁹
- C₇H₁₁O₃ Dibenzol[3]santhene-13 al(?) 09²⁰
- C₇H₁₁O₃ 1 Naphthyl carbonates 1238²¹
- C₇H₁₁O₃ 4 meso-Benzanthrene-7,8-dicarboxylic acid 4 keto di Me ester, 291²²
- C₇H₁₁O₃ 2 Thionaphthene-2-carboxylic acid α -ethoxy 1,1-carboxylate 516²³
- C₇H₁₁BrO₃ Acetophenone α -bromo- α 9 fluoryl, 91²⁴
- C₇H₁₁BrO₃ Carbonol (2 bromo 1 thionaphthyl)diphenyl (?) 2144²⁵
- C₇H₁₁Cl Propane, 3-chloro-1,3,3 triphenyl, 1001²⁶
- C₇H₁₁ClO₃ Diphenylthiopyrylium chloride and FeCl₃ deriv, 5413²⁷
- C₇H₁₁ClO₃ 2,3-Diphenylbenzopyrylium perchlorate 4883²⁸
- C₇H₁₁ClO₃ β Cresol, 2-chloro-6-(2,6-dichloro- β -tolyl), benzoate 565²⁹
- C₇H₁₁Cl₂FeO₃ Diphenylbenzopyrylium chloride FeCl₃ deriv, 5413³⁰
- C₇H₁₁NO₃ Oxazole 2,4 3-triphenyl, 290³¹
- C₇H₁₁NO₃ 1² Oxazole 4 5-epoxy 2 4 5-triphenyl 295³²
- C₇H₁₁NO₃ Chalcone 2 nitro- α phenyl, 1203³³
- C₇H₁₁NO₃ Chalcone 4 (β -nitrophenyl)mercaptol, 212³⁴
- C₇H₁₁NO₃ Benzopyranol 6-nitro-2,3-diphenyl 4883³⁵
- C₇H₁₁NO₃ Anthraquinone 1 β -tolylsulfonamide 94³⁶
- 2(1) Naphthalene 1 (2 methoxy 1 naphthylmercaptol) 1 nitro- 426³⁷
- C₇H₁₁NO₃ Acetophenone α -(5-nitrosalicyl), benzoate 4883³⁸
- C₇H₁₁N₂O₃ Triazine, 2,4,6 triphenyl, P 3177³⁹
- C₇H₁₁N₂O₃ 1,2 β -Naphthopyrone, 3 acetyl, β -nitrophenylhydrazide, 2146⁴⁰
- C₇H₁₁O₃ Cyclopenteno-1,2 benzanthracene, 2717⁴¹
- Indene, 2,3-diphenyl, 3330⁴²
- C₇H₁₁AsN₂O₃ Benzencarboxylic acid, β (3 hydroxy 2 phenyl 4 quinolyloxy), 4937⁴³
- C₇H₁₁BrNO₃ Benzamide, m bromo- α hydroxy, α -toluate 1818⁴⁴
- m Benzotoluide, β bromo- α hydroxy, benzoate, 5408⁴⁵
- C₇H₁₁ClNO₃ Benzamide, m chloro- α hydroxy, α -toluate 1818⁴⁶
- α -Toluidide α hydroxy, m-chlorobenzoate 1818⁴⁷
- C₇H₁₁N₂O₃ tria- β -diaphthyl, 1,003⁴⁸
- C₇H₁₁N₂O₃ 5 Amino-4-carboxylic acid, benzyl ester 4271⁴⁹
- Anthraquinone 1 amino- β -tolylamide, 945⁵⁰
- C₇H₁₁N₂O₃ 1,2 4 Oxazole 3 benzyl- α -phenyl, phenylhydrazide, 3623⁵¹
- C₇H₁₁N₂O₃ Benzil α -methoxy, 2,4-dinitrophenylhydrazide 1243⁵²
- C₇H₁₁N₂O₃ 1 3 2 Benzoxazine 2 methyl 4 phenyl picrate 1250⁵³
- 1 Ethyl 2 phenylbenzoxazolium picrate, 1201⁵⁴
- C₇H₁₁N₂O₃ 1 2 Propanedione 1 (2,4-dihydroxyphenyl) bis(2,4 dinitrophenylhydrazide) 100⁵⁵
- C₇H₁₁O Indanone 2 3 diphenyl 3335⁵⁶
- C₇H₁₁O₃ Carinol diphenyl 1 thionaphthyl (?) 2143⁵⁷
- C₇H₁₁O₃ 1 3 Propanedione, 1 2 3 triphenyl, 2642⁵⁸
- Propenone α , β epoxy β β -diphenyl, 941⁵⁹
- C₇H₁₁O₃ 2 Naphthol 1 (2 methoxy 1 naphthylmercaptol), 3330⁶⁰
- 1 naphthyl mercaptol, 2 (2 methoxy 1-naphthoxy) 3331⁶¹
- C₇H₁₁O₃ α -Toluenediol, bis(thioacetate), 503⁶²
- C₇H₁₁O₃ Acetophenone, α -salicyl, benzoate, 4883⁶³
- Benzon benzoate 3642⁶⁴
- C₇H₁₁O₃ 7 8 Benzofuranone, 3,4-dimethoxy, 426⁶⁵
- Salicylaldehyde benzalbis, 4862⁶⁶
- C₇H₁₁O₃ 2 Naphthol 1 (2 methoxy 1 naphthylsulfonol), 56⁶⁷
- C₇H₁₁O₃ Gemstein triacetate 56⁶⁸
- C₇H₁₁S Thionaphthene, 1 benzohydryl (?), 2144⁶⁹
- C₇H₁₁BrN₂O₃ Salicylic acid (β -tolylazo), compd with H₂N 3322⁷⁰
- C₇H₁₁BrO₃ Iriophenone hydroxy β β -diphenyl, 941⁷¹
- C₇H₁₁ClS Thioxanthene 9-chloro-2,7-dimethyl-9 phenyl deriv, 1828⁷²
- C₇H₁₁ClN₂ 1 (4 Amino-3-chloro-2-quinolyl)methylpyridinium chloride 2130⁷³
- C₇H₁₁ClFeS Thioxanthene 9-chloro-2,7-dimethyl-9 phenyl FeCl₃ deriv, 1828⁷⁴
- C₇H₁₁ClO₃ 2381⁷⁵
- C₇H₁₁SO₃ 2382⁷⁶
- C₇H₁₁N Propionitrile β triphenyl, 2991⁷⁷
- C₇H₁₁NO Anthrone, 10-amino-3-methyl, 4266⁷⁸

- C₂₁H₁₇NO₂ Acetamidate α formyl α - α -diphenyl 4254⁴
 Fluorencarboxy- α -toluene, 2 hydroxy 1⁴ 5177³
- C₂₁H₁₇NO₂ Benzamide α hydroxy α -toluate 1818¹
 Δ^2 -Oxazolone, 2 β amyl 4 5-epoxy 4 5-di phenyl 1, 295¹
 α -Toluamide, α hydroxy benzoate 1818¹
- C₂₁H₁₇NO₂ Anthra[2,1- β]pyrrole-2-carboxylic acid, 3 acetyl 1 2-dihydro-1 keto- 1: ester 948²
- C₂₁H₁₇N₃ 1 3 4 Triazole, 2 benzyl 1 5-diphenyl 295¹
 1 3 4 Triazole, 2 5-diphenyl 1 m (and ρ) tolyl 295¹
- C₂₁H₁₇N₃O 1 3 4 Triazole 1 β amyl 2 5-di phenyl, 295¹
- C₂₁H₁₇N₃O₂ Anthranic acid N (N 3 pyridyl carbonylanthranoyl) Me ester 3000³
- C₂₁H₁₇N₃O₂ Ketone 3 acenaphthenyl ethyl picrate 5674¹
- C₂₁H₁₇O₂Rb, 2381¹
- C₂₁H₁₇ Ethylene 1 (β phenylphenyl) 1 β tolyl 4238¹ 4239¹
 Indan 2 3 diphenyl, 333¹
- C₂₁H₁₇BrN₃O₂ β -Toluenesulfono-m toluene bromo 6 hydroxy 3-nitro- 3 nitro β -toluenesulfonate 5408³
- C₂₁H₁₇ClFN₃O₂ Dibenzylamine β chloro- β fluoro-N methyl picrate 925¹
- C₂₁H₁₇ClS Thioxanthene 9 chloro 2 7-dimethyl 9 phenyl HCl 1828³
- C₂₁H₁₇F₂N₃O Dibenzylamine α β -difluoro λ methyl picrate 925¹
- C₂₁H₁₇N₃O₂ Pyruvic acid diphenyl phenyl hydrazone 941¹
- C₂₁H₁₇N₃O₂ Crotonamide m (m hydroxyphenyl carbamyl) P 3670⁴
- C₂₁H₁₇N₃O 2 Naphthol 1 (3 5-dimethyl 1 phenyl 4 pyrazolylazo) 1a23¹
- C₂₁H₁₇N₃O₂ Urea 3 bis(6 methoxyquinoxyl) and salts 953¹
- C₂₁H₁₇N₃S Δ^2 1 3 4 Thiodiazolone 2 amino-4 benzyl α -phenylamino- and HCl 4862¹
- C₂₁H₁₇OS 9 Thioxantheneol, 2 7-dimethyl 9 phenyl 1878¹
- C₂₁H₁₇OS₂ Ethylenesulfonic acid 2 2 diphenyl 1 phenylmercapto Me ester 4265¹
- C₂₁H₁₇O₂ Fluorene 9 β amyl 9 methoxy, 4678¹
 Naphthalene diacetylbenzyl, 1a1a¹
 1 Propanol 2 3-epoxyphenyl, 941¹
 2 Propanone 1 hydroxy 1 3 3 triphenyl (?) 941¹
 Propiophenone β hydroxy β β diphenyl 3641¹
 Xylenol α phenyl benzoate, 93¹, 3635¹
- C₂₁H₁₇O₂S Ethylenesulfonic acid 1 phenoxyl 2 2 diphenyl Me ester 4265¹
- C₂₁H₁₇O₂ Hydrazonic acid α β β triphenyl 298¹
 Phenol, β -(β phenetyl), benzoate 4873¹
 Salicylic acid 4,6-diphenyl Et ester, 3327¹
- C₂₁H₁₇O₂ Peroxide α , β epoxy β , β -diphenylethyl α hydroxybenzyl 941¹
 1 2 Pyran 1 carboxylic acid 2 keto-4 phenyl 6- β tolyl Et ester 214¹
- C₂₁H₁₇O₂ Meconin, 2 (methoxynaphthyl), 4519¹
- C₂₁H₁₇O₂ 4 Chromanone, 3 amyl 7 8 di hydroxy diacetate, 1a34¹
 4 Chromanone 7 hydroxy 3-vanilla di acetate, 1a34¹
- C₂₁H₁₇O₂ Baccala 1a28¹
- C₂₁H₁₇S Thioxanthene 2,7 dimethyl 9 phenyl, 1828¹
- C₂₁H₁₇BrN₃O₂ Propionic acid, α (2 4 6-trinitrophenoxyl) Et ester, compd with 4,4 BrC₆H₃Cl₃ 8a5¹
- C₂₁H₁₇ClN₃O₂S Thiazolo[α]quinoline, 2 4 5 6-tetrahydro 2 [(3 4 5 6 tetrahydro 3 hydroxythiazolo[α]quinolin 2 yl) methylene] perchlorate 5170¹
- C₂₁H₁₇FN₃O₂ Dibenzylamine fluoro λ methyl picrate 925¹
- C₂₁H₁₇IN₃S Thiazolo[α]quinoline, 2 4 5 6-tetrahydro 2 [(3 4 5 6 tetrahydro 3 hydroxythiazolo[α]quinolin 2 yl) methylene], iodide 5170¹
- C₂₁H₁₇NO Acetamide V triphenylmethyl 2991¹
- C₂₁H₁₇NO₂ Acetohydroxamic acid triphenyl Me ester 942¹
- C₂₁H₁₇NO₂ Chelerythrine 4003¹ 5898¹
- C₂₁H₁₇NO₂ Hydrastine dedihydro 2150¹
- C₂₁H₁₇NO₂ 1 Naphthalenecarbinol α allyl- α -methyl picrate 3330¹
- C₂₁H₁₇N₃O₂ 2 Carbazolecarboxamide 6 (β hydroxyamino) N, N dimethyl P 1099¹
- C₂₁H₁₇N₃S Benzophenone thio-4 β tolylsenu carbazone 1225¹
- C₂₁H₁₇N₃ Pyrazole 4 (2 amino-1 naphthylazo) 3 5 dimethyl 1 phenyl 1523¹
- C₂₁H₁₇BrNO₂ Hydrastine bromo- and HBr 2150¹
- C₂₁H₁₇ClNO₂ Hydrastine chloro 2150¹
- C₂₁H₁₇INO₂ Hydrastine iodo and salts 2150¹
- C₂₁H₁₇NNa β -Toluidine N λ -dimethyl- α -di-phenyl Na deriv 1235¹
- C₂₁H₁₇N₃ Acetophenone benzylphenylhydrazone 2131¹
 Ketone 3 acenaphthenyl ethyl phenyl hydrazone 5674¹
- C₂₁H₁₇N₃O m Acetotoluene 4-diphenylamino-500¹
- C₂₁H₁₇N₃O₂ Quinolone 4 (diacetylamino) 6 ethoxy 2 phenyl 4884¹
- C₂₁H₁₇N₃O₂ Piperazine 2 3 5 6-tetramethyl 1 phenylsulfonyl β toluenesulfonate 4272¹
- C₂₁H₁₇N₃O₂ Hydrastine nitro, and HCl 2149¹
- C₂₁H₁₇N₃O₂Si + SiH₄O 3926¹
- C₂₁H₁₇N₃ Formamidine α phenylazo N N di tolyl 2701¹
 Pyruvaldehyde phenyl phenylazone 1820¹
- C₂₁H₁₇N₃O₂ Benzohydroxylamine N, N-dimethyl picrate 91¹
- C₂₁H₁₇N₃O₂ Benzylamine β -dimethylamino dipicrate 4247¹
- C₂₁H₁₇O Menthyl diphenyl 94¹ 3635¹
- C₂₁H₁₇O₂ Butyrophenone α (α 2 furylbenzyl), 5424¹
 Propiophenone β 2 furyl- α - α -dimethyl β phenyl, 5424¹
- C₂₁H₁₇O₂ 2 4 Xylenol α -phenyl, β -toluene-sulfonate 3635¹
- C₂₁H₁₇O₂ α -Veratric acid, 6-(2 methoxy 1 naphthylmethyl), 4519¹
- C₂₁H₁₇O₂ Veratraldehyde, 2 (5-formyl 2 methoxy 4 vinylphenoxyl) 6 vinyl 2983¹
- C₂₁H₁₇O₂ Anhydromethylglucoside dibenzoate, 686¹
 Oxalacetic acid, [(3 hydroxy 2 naphthyl) methylene], di Et ester, acetate, 2146¹

- C₁₁H₁₀O Daidzin 567²
 Frangula 984²
 C₁₁H₁₀O₂ Cestuin 567⁵
 C₁₁H₁₀Pb Plumbane allyltriphenyl, 5407¹
 C₁₁H₁₂Al 65³
 C₁₁H₁₂BrPb Plumbane bromotr-o-tolyl, 2688³
 C₁₁H₁₂BrO Hydratropic acid β α-dibromo-β (α bromo 2,4 dimethoxybenzoyl) 2,4-dimethoxy Me ester, 4886²
 C₁₁H₁₂ClN₂O₃ 2 Methyl 1 [(α methyl γ (2 methyl 1(2) benzothiazolidene) butyl)benzothiazolum perchlorate, 5170¹
 C₁₁H₁₂ClPb Plumbane chlorotr-p-tolyl 5407¹
 C₁₁H₁₂N Tribenzylamine, Hf 262³
 C₁₁H₁₂NO Carbanol (p-dimethylaminophenyl) diphenyl 1233¹
 Etbanol 2 benzylamino-1,2-diphenyl 1819²
 C₁₁H₁₂NO₂ Cinchophen 6,8-dimethyl Pr ester, P 5313³
 Cinchophen 6 methyl Bu ester P 5513³
 C₁₁H₁₂NO₂ Malonic acid (2 anthrylamino) di Li ester 947³
 C₁₁H₁₂NO₂ Des pukeatene ethyl carbonate, 3655³
 C₁₁H₁₂NO₂ see Hydrastine
 C₁₁H₁₂NO₂ Aulhydro-N hydroxyhydrastene, 4274¹
 Hydrastine V-oxide 4274¹
 Norhydrastine V-oxide, and HCl 4274¹
 C₁₁H₁₂NO₂S Norhydrastine sulfamic acid, V hydroxy 4274¹
 C₁₁H₁₂N₂O₂ Cinchophen, 6-ethoxy, isopropyl isenchydrazide 4851¹
 C₁₁H₁₂N₂O₂ Benzyl dimethylphenylammonium 7,4-dinitrobenzoate, 4242¹
 C₁₁H₁₂N₂O₂ 1 Naphthylamine 2,4-dinitro-N (trimethoxyphenethyl), 3400^{1,2}
 C₁₁H₁₂N₂O₂ Benzyl diisopropylammonium iodide, 253³
 C₁₁H₁₂O P Toly phosphate, 348¹, 3182², 3507¹
 C₁₁H₁₂AsI Benzyl diisopropylammonium iodide, 253³
 C₁₁H₁₂INO₂ Acetic acid, [(1 (p methoxystyryl) 5 methyl 4 benzothiazolyl)mercapto], ethoxide, 4501¹
 C₁₁H₁₂INO₂ Coplaxene, tetracyclo-(2) ethoxide, 518¹
 Pukeatene, acetate, methiodide, 3655³
 C₁₁H₁₂N₂O Ketone 4-dimethylamino-1 naphthyl β-dimethylaminophenyl Iol¹
 Quinaldine, α β dimethylamino benzal 6 ethoxy, 4625¹
 C₁₁H₁₂N₂O₂ (see also Strychnine)
 Cinchonamide N, N-dimethyl 6 methoxy 2 phenyl, 4583³
 2,5-γ-probeberediacarboxamide, 4859²
 C₁₁H₁₂N₂O₂ Benzyl dimethylphenylammonium o-nitrobenzoate 4242¹
 C₁₁H₁₂N₂O₂ + 4H₂O Amoxic acid, sinters 180-200°, from oxidation of tetrahydrostrychnine, and perchlorate, 2433¹, 2432¹
 C₁₁H₁₂N₂O₂ Anticondicarboxylic acid, keto-, quinoline deriv, 5174¹
 C₁₁H₁₂N₂O₂ Hydrastine amino-, and HCl 2149¹
 C₁₁H₁₂N₂ Guanidine α amino-β γ-tolyl, 2701¹
 C₁₁H₁₂N₂O₂ Luta, 1 bis(β 3 indolylethyl), 4880²
 C₁₁H₁₂N₂O₂ Piperidine 1 (3 4-dihydro-2 naphthyl), picrate 2133¹
 C₁₁H₁₂N₂O₂ 1,2,3,4,6,7 Hexahydro-9,10 di methoxy leuco[α]quinolizinium picrate, 1313¹
 C₁₁H₁₂O₂Pb Plumbane, β γ-dihydroxypropyl-triphenyl, 5407¹
 C₁₁H₁₂O₂ Δ¹-3-sterone, 1 m amyl-4 (m methoxybenzyl), 2132¹
 C₁₁H₁₂O₂ Truxillic acid mono-Pr ester, 1500¹
 C₁₁H₁₂O₂ Derivat 103¹
 Isodentrol 39¹
 C₁₁H₁₂O₂ 9,9,10(10) Anthracenetricarboxylic acid, compd with Et₂O, 1518¹
 Chalcone, 4'-hydroxy-2,3,4,6-tetra methoxy, acetate, 5430¹
 C₁₁H₁₂O₂ Coumarin, 5,6,7 trimethoxy-3 (3,4,5-trimethoxyphenyl), 4041¹
 C₁₁H₁₂O₂ Naphthoside 453¹
 C₁₁H₁₂Pb Plumbane tri-o-tolyl, 2688³
 C₁₁H₁₂ClN₂O₂ 2 Ethyl 1 [(2 ethyl 5 methyl 1(2)-benzothiazolidene)methyl] 5-methylbenzothiazolum perchlorate, 5170¹
 C₁₁H₁₂ClN₂O₂ Isoquinolone, 1 (4-chlorobutyl) 3,4 dihydro-6,7 dimethoxy-, picrate, 1331¹
 C₁₁H₁₂IN₂ Quinolone, 2 β-dimethylaminoethyl 6-methyl, methiodide 4625¹
 C₁₁H₁₂IN₂ 2 Ethyl 1 [(2 ethyl 5-methyl 1(2) benzothiazolidene)methyl] 5-methyl benzothiazolum iodide 5170¹
 C₁₁H₁₂INO Anthrone, dimethyl 10-(1 piperidyl), 2093¹, 3546¹, 4547¹
 C₁₁H₁₂INO₂ Homotribenemethylmethane, and HCl, 2731¹, 2732¹
 Tranilamide acid, Pr ester 1500¹
 C₁₁H₁₂NO₂ Allodihydroxyhydrocryptine, 122¹
 C₁₁H₁₂NO₂ (See also Cryptopine, Heroin)
 Allocryptopine, 122¹
 Homochelidomene, 1221¹, 4003¹
 C₁₁H₁₂NO₂ Hydrastene, α hydroxy-, 4274¹
 C₁₁H₁₂NO₂ Anthraquinone-9 imonium salt by drate, 1 hydroxy 2 glucosyl-, Me deriv, 4261¹
 C₁₁H₁₂N₂ Compd, m 199-200°, from tricyclo-pentadiene and Ph₃N, 1907¹
 C₁₁H₁₂N₂O Retene, acetyl, semicarbazone, 3121¹
 C₁₁H₁₂N₂O₂ Hydrastine, hydrastine-, 2149¹
 C₁₁H₁₂N₂O₂ Canotheline, dihydro-, nitrate, 110¹
 C₁₁H₁₂N₂O₂ Canabitol, trimetro-, 2732¹
 C₁₁H₁₂N₂O₂ Quinolone 2 (β-dimethylaminoethyl), monopicrate 4270¹
 C₁₁H₁₂AlN, 65³
 C₁₁H₁₂BIN₂O₂ Sulfamic acid 2 mercapto V-sulfomethyl, 5 Di deriv, di Na salt P 1313³
 C₁₁H₁₂BrN₂O₂ Strychnine, dibromotetrahydro-, and salt, 2432¹
 C₁₁H₁₂Br₂O₂ α Mangostin tetrahydro-, 4277¹
 C₁₁H₁₂INO₂ Homotribenemethylmethane, 2731¹
 Methiodide, m 272-4° of methine from methylpukeatene methiodide, 3655¹
 Triolamethylmethane, methyl, methiodide 2731¹
 C₁₁H₁₂INO₂ Lauprepukine dimethyl, methiodide-3655¹
 C₁₁H₁₂N₂O₂ Acetyl deriv, m 194-6°, of compd m 174-7°, 5429¹
 1 Naphthalenecarbinol, 4 dimethylamino-α (β-dimethylaminophenyl), 1313¹
 Strychnine, perchlorate, 2432¹
 C₁₁H₁₂N₂O₂ Cyclopentanecarbinol, 3 methyl, 4234¹
 C₁₁H₁₂N₂O₂ 1 Heptanol, 2 benzyl, 3,5-dinitrobenzoate, 4274¹

- C₂₁H₂₉N₃O₃ Phenylhydrazine salt of the oxazone of compd from 2 methyl 2,3 butadiene sulfone, 277³
- C₂₁H₂₉O₃ Caprylophenone, β hydroxy, benzoate 1229¹
- C₂₁H₂₉O₄ $\Delta^1 \alpha$ (3) α' Benzonaphthenediacetic acid, 2,3,3a,4 tetrahydro-, di Et ester 5161¹
- C₂₁H₂₉O₄ Lactone anhydride m 212⁶, from duodephanthondiacid, 5173¹
= Mangosin 4277¹
- C₂₁H₂₉O₄ 1,3 Propanediol, 2,2 bis(methoxy methyl), dibenzoate 1801¹
- Veratraldehyde 6-ethyl 2 (4 ethyl 5-formyl 2 methoxyphenoxy), 2983³
- C₂₁H₂₉O₄ Hydratropic acid β (2 4-dimethoxy benzoyl) 2,4-dimethoxy Me ester 4866¹
Me ester m 104¹ of acid m 157¹ 4866¹
- C₂₁H₂₉O₄ + 2H₂O See *Palorhiza*
- C₂₁H₂₉O₄S β Glucothios tetraacetate, 1 benzoate 4233¹
- C₂₁H₂₉O₄ Gluco- α hydroxybenzaldehyde tetraacetyl 2697¹
- C₂₁H₂₉ClN₃O₄ Quinone peroxide, CHCl₃ compd, 3322¹
- C₂₁H₂₉NO₄ 1 Heptanol 2 benzal, carbanilate 2708¹
- C₂₁H₂₉NO₄ Anhydrocryptopane, tetrahydro 1202¹
Glaucone, and salts 518¹
Palmitine tetrahydro 3348¹, 5390¹
- C₂₁H₂₉NO₄S Tribolone compd with Me₂SO₄, 2731¹
- C₂₁H₂₉NO₄ Glucosamine N benzoyltetraacetyl 3968¹
- C₂₁H₂₉N₃O₄ Hydratropic acid, β (2,4-dimethoxy benzoyl) 2,4-dimethoxy, semicarbazone 4866¹
- C₂₁H₂₉INO₄ Pseudoepistephamine, methyl methoxide 4887¹
- C₂₁H₂₉INO₄ Tribolone-methylmethane methoxide, 2731¹
- C₂₁H₂₉IN₃ 1 Methylcolitindium iodide, compd with benzidine 5426¹
- C₂₁H₂₉N₃O₄ Quinone methyl 1829¹
Strychnine tetrahydro- and perchlorate 2431¹, 2432¹
- C₂₁H₂₉N₃O₄ (See also *Yohimbine*)
Yohimbine 2149¹, 4274¹
- C₂₁H₂₉N₃O₄ Chintemo, Et ester 954¹
1 Propanol, 3 (methyl-4-phenylbutylamino) β nitrobenzoate, HCl 2709¹
- C₂₁H₂₉N₃O₄ 1,2 Propanediol, 3 butoxy, dicarbanilate, 684¹
- C₂₁H₂₉N₃O₄ 4 Isopyrrolepropionic acid 2 (3 5 dicarboxyethyl 4 methyl 2 pyrrol methylene) 3,5-dimethyl HBr, 113¹
- C₂₁H₂₉O₅ Phenol β octyl, benzoate 1229¹
- C₂₁H₂₉O₅S Carbamic acid, thiol, dithymyl ester, 290¹
Carbamic acid thioiso, dithymyl ester, 290¹
- C₂₁H₂₉O₅ Crocetin di Me ester 3352¹
- C₂₁H₂₉ClN₃O₅ 4 Isopyrrolepropionic acid, 2 (4 (3 carboxyethyl) 3 5 dimethyl 2 pyrrolchloromethylene) 3,5 di methyl, di Me ester, and its HCl 5900¹
- C₂₁H₂₉NO 1 Piperidineethanol, α phenethyl- α phenyl HCl, 4276¹
- C₂₁H₂₉NO₃ 1 Propanol 3 (methyl 4-phenylbutyl amino) benzoate, HCl, 2709¹
- C₂₁H₂₉NO₃ Dinicotinic acid, 1,4-d hydro-2,6-dimethyl-4 xylol, di Et ester, 5429¹
- Dinicotinic acid, 1 2 (or 1 4) dihydro 1 2 4 6 tetramethyl 2 (or 4) phenyl di Et ester, 293¹
- Laudanosine, 2148¹ 3004¹ 3005¹
- C₂₁H₂₉NO₃ Sinomenine bis(hydroxymethyl) 2147¹
- C₂₁H₂₉NO₃ Veratrylamine N (3 4-dimethoxy phenethyl) oxalate 3633¹
- C₂₁H₂₉NO₃S Sinomenine methosulfate 4551¹
- C₂₁H₂₉N₃O₃ Benzenesulfonic acid β methoxy Me ester compd with pyrimidone 3322¹
- C₂₁H₂₉INO₃ Sinomenine achro methane methoxide 3003¹
Sinomenine roseo methane methoxide 3003¹
Sinomenine violea methane methoxide, 3003¹
- C₂₁H₂₉INO₃ Sinomenine, (hydroxymethyl) methoxide 2147¹
- C₂₁H₂₉N₃O₃ (See also *Optochine*)
1 Propanol 3 (methyl 3 phenylbutylamino) β aminobenzoate HCl 2709¹
- C₂₁H₂₉N₃O₃ Compd from β anisidine and Et α methylacetacetate 1503¹
2 2 Indandiacetic acid hexahydro- α keto, di Me ester phenylhydrazones 3335¹
3 Isopyrrolepropionic acid 2 (4 (3 carboxy ethyl) 3 5 dimethyl 2 pyrrolmethyl enol)-4 5-dimethyl di Me ester salts 1257¹
- C₂₁H₂₉N₃O₃S Piperazine 2 3 5 8 tetramethyl 1 phenylsulfonyl 4 β tolylsulfonyl, 4272¹
- C₂₁H₂₉N₃O₃ 4 Isopyrrolepropionic acid 2 (3 (3 carboxyethyl) 5 methoxy 4 methyl 2 pyrrolmethylene) 3 5 dimethyl di Me ester 2433¹
3 Pyrrolepropionic acid 5 5-carboxylus (2 4-dimethyl di Me ester 5899¹)
- C₂₁H₂₉N₃O₃ Nucidine 2 keto 3 hydroxy acetate, salt with AcOH 706¹
Sinomenine bis(hydroxymethyl), oxime, 2147¹
- C₂₁H₂₉N₃O₃ Trimethylxose, phenylsazone 4577¹
- C₂₁H₂₉N₃O₃ 2 Pyrrolecarboxylic acid 5 5 methylenebis(4 acetamido 3 methyl di Et ester 961¹)
- C₂₁H₂₉O 4 7 Hendecadecan 6-ol, 2 2,10,10-tetra methyl-6 phenyl, 487¹
- C₂₁H₂₉O₂ Dilactone acid m 203¹ from duodephanthondiacid, 5173¹
- C₂₁H₂₉O₂ Duodephanthondiacid 5173¹
- C₂₁H₂₉BrO₂S Ethylmethylphenacylsulfonium bromocamphorsulfonate 690¹
- C₂₁H₂₉N₃O₂ Compd, m 113 5¹ of barbital and pyrimidone P 4360¹
- C₂₁H₂₉N₃ Aniline β , β methylenebis(N, N di ethyl P 3670¹)
- C₂₁H₂₉N₃O₂ Cinchonine acid 2 isoamoxy, β diethylaminoethyl ester, 5245¹
- C₂₁H₂₉N₃O₂ 3 Pyrrolepropionic acid, 5-(5-carboxyethyl) 3 ethyl 4 methyl 2 pyrrolmethyl)-4 α dimethyl, Me ester, 4009¹
- C₂₁H₂₉N₃O₂S Carbamic acid, (3,4-dimethoxy phenethyl)dithio, 3 4 dimethoxyphenethylamine salt 4241¹
- C₂₁H₂₉N₃O₂S Piperazine, 2,3,5,6 tetramethyl 1 β tolylsulfonyl, benzenesulfonate 4272¹
- C₂₁H₂₉N₃O₂ 4 Isopyrrolepropionamide, 2 (3 methoxy - 4 methyl - 3 (3 methylcar

- b m ethyl 133; trimethyl 433
 C₂H₂O₃ Pyrethra 166b 1024
 C₂H₂O₃ Deoxy acyl anhydride m 11
 f m luodephanthondiacid 1173
 a Mingo tin hexahydro 4-
 C₂H₂N₂O₂ Isopropyl 4-ethoxyethyl 2 (4-ethoxyethyl) 4 ethyl 3 methyl 2
 pyrrolmethylenel 4 ethyl 3 methyl
 HBr 3306
 C₂H₂N₂S₂ Isopyrrole 4-ethyl 9 (4-ethyl 9-ethylmercaptomethyl) 3 methyl 2
 pyrrolmethylenel 5 ethylmercapto-
 methyl 3 methyl HBr 3304
 C₂H₂N₂O₂ Cyclopentadecane 4 nitro
 phenylhydrazine 33 0
 C₂H₂O₃ Dehydrosoxallic acid Me ester
 1312
 C₂H₂O₃ Triacetic acid soften 170 from duode
 phanthond acid 1173
 C₂H₂N₂O₂ Tyrosine 11 leucyl glycol
 butyl ester HCl 244
 C₂H₂O₃ Compd m 49 90° from oxidation of
 amyris 1353
 C₂H₂O₃ Lauric acid 4 ethyl 9-ethyl ester 929
 Laurophenone 3 thyl 4 hydroxy 9-methyl
 929
 C₂H₂O₃ Isoagathic acid hydroxy Me ester
 2136
 C₂H₂O₃ Agathicdicarboxylic acid dihydro
 mono-Me ester 2136
 C₂H₂O₃ Glucosaccharonic acid 3604
 C₂H₂N₂O₃ Camphor 3 (methylanilino
 methylene 692
 C₂H₂N₂O₃ Cellulose 400
 C₂H₂N₂O₃ Linalyl 4-β-dihydroxy-α-nitroso 10
 C₂H₂O₃ Compd from amyris 2990
 Oleatene 2653
 C₂H₂N₂ Hydrazine m 24° of compd m
 89-90° 2984
 C₂H₂N₂O₃ Trisoxamylammonium picrate 2676
 C₂H₂O₃ o-Cresol 4-dodecyl-6-ethyl 9-9
 C₂H₂O₃ 314
 C₂H₂O₃ Agathic acid hydroxyd hydro mono
 Me ester 2136
 C₂H₂INO₃ Stemonidic acid methine di
 methyl Me ester methiodide 4003
 C₂H₂IF Diethylmethylphenylphosphonium io
 dide 5662
 C₂H₂N₂O₃ Leucine 11 (11 glycylicleucyl)
 glycol isoxamyl ester HCl 2742
 C₂H₂O₃ Furan-carbinol tetrahydro-palmitate
 P 3666
 C₂H₂O₃ Phellogenic acid 4831 4852
 C₂H₂O₃ Multoionic acid octamethyl Me
 ester 4029
 Mannonic acid octamethyl 4 β-glucoside
 Me ester 4029
 C₂H₂O₃ Ether allyloctadecyl 684
 C₂H₂O₃ Tetachylalcohol 684
 C₂H₂O₃ Butyl alcohol 684
 1 2 Propanediol 3 (octadecyloxy) 684
 C₂H₂OP Phosphine oxide triethyl 5664
 C₂H₂P Phosphine triethyl 5664
 C₂H₂N₂O₃FWs Choline acetyl phospho-
 tungstate 607
 C₂H₂Br₂O₃ 5 7 12 14 Pentacenetetrone di
 bromo-16-9
 C₂H₂Br₂O₃ 9 Perylenedicarboxylic acid tetra
 bromo-292
 C₂H₂Br₂O₃ Eosin dye 5163
 C₂H₂N₂O₃ 7 12 14 14 Pentacenetetrone di
 bromo-18 9
 C₂H₂O₃ Mellictric trianhydride, compd with
 naphthalene, 97
 C₂H₂Cl₂O₃ 12 Pentacenetetrone, 7,7,14 14
 tetrachloro-7,14-dihydro-5414
 C₂H₂N₂O₃ 3 9 Perylenedicarboxylic acid, P 304
 C₂H₂N₂O₃ 6 11 β Anthrathazolidione 2 (m
 hydroxyphenyl), isoxamate 2724
 C₂H₂N₂O₃ Dioxindole[2,1-a-1,2-b] m benzobis-
 imidazole 12 16-dione 3343
 C₂H₂N₂O₃ Phthalimide V, N' (4,6-dinitro-m
 phenyl)bis-3343
 C₂H₂O₃ Dibenzol[1,3]pyrene-6,12-dione, by
 droxy, P 5179
 C₂H₂O₃ 5 7 12 14 Pentacenetetrone, 18 9
 C₂H₂O₃ 5 7 12 14 Pentacenetetrone, di
 hydroxy 1829
 C₂H₂BrN₂O₃ Acenaphthobenzoquinonoxaline, 3
 bromo-2713
 C₂H₂BrN₂O₃ 10 Acenaphthobenzoquinonoxa
 leneulfonic acid, 3 bromo-, 2716
 C₂H₂Br₂O₃ 3 9 Perylenedicarboxylic acid
 bromo-, 292
 C₂H₂ClN₂O₃ Acenaphthobenzoquinonoxaline, 3
 chloro-, 2716
 C₂H₂ClN₂O₃ 10 Acenaphthobenzoquinonoxa
 leneulfonic acid, 3-chloro-, 2716
 C₂H₂BrN₂O₃ Fluoranthene, bromo-, picrate,
 1633
 C₂H₂Br₂O₃ Ethylene 2 bromo-1 1-di 1 naphthyl,
 1633
 C₂H₂N₂O₃ Naphtho[2,3-b]phthalazine-6 11
 dione 1 hydroxy-4 phenyl, 1822
 C₂H₂N₂O₃ 5 7 12 14 Pentacenetetrone, diam-
 ine 1820
 C₂H₂O₃ Benzol[a]naphthacene 7,14 dione,
 5162
 Dibenzanthracenedione, 1818
 α Dibenzanthracenedione 1818
 6 13 Pentacenedione 1829, 5162
 Perylenequinone 1818
 C₂H₂O₃ 2 Thionaphthene 9 phenanthrene-
 indigo isomer 3997
 -(1) Thionaphthene, 1 (10-keto 9(10)
 phenanthrylidene), 3997
 C₂H₂O₃ Benzol[a]naphthacene-7,14-dione, by
 droxy 4858
 6 13 Pentacenedione 5-hydroxy, 5162
 C₂H₂O₃ Benzol[a]naphthacene-7,14-dione, 8,13-
 dihydroxy 4858
 6 13 Pentacenedione, 14-dihydroxy, 5163
 C₂H₂O₃ 6,13 Pentacenedione 5 7 12 14 tetra
 hydroxy 5163
 C₂H₂Br₂ Benzofulvene 2 3 6 (tribromo 8,8-
 di phenyl) 1355
 C₂H₂N₂O₃ Anhydro p tolyl-α anthraquinonyl ke-
 tone oxime 2996
 α Dibenzacene 7 carboxylic acid,
 and N 294
 1 2 β Naphthazolidione, 3 (2 naph-
 thyl) 294
 C₂H₂N₂O₃ Anthra[2 1-a] 1 4 thiazine-7,12-di-
 one 2 phenyl 2 23
 Oxindole[3' 2']thionaphthene 2 one 1
 phenyl 294
 C₂H₂INO₃ Oxindole[3' 2']phthalide 1 phenyl,
 294
 C₂H₂N₂NO₃ 3 Rosindole 2G 3047
 C₂H₂N₂ Naphtho[2 3-a]quinoxal[2 3-β]indole
 945
 C₂H₂N₂O₃ Anthraquinone 1 am no 2 (2 4-di-
 bromo) 945
 C₂H₂N₂O₃ Fluorene picrate 1816
 Pyrene picrate 1816

- C₂₂H₁₄** Dibenzanthracene, 2716⁴
 Dibenzof[*a*]phenanthrene, 3989⁷
 Pentacene, 2141⁸
 6,13 Pentacenediyl, 6,13-dihydro 2141⁸
 3989⁷, 5133⁹
- C₂₂H₁₄Br₂N₂O** 1,4 Naphthoquinonimine 2
 amino-5,6-dibromo-*N* phenyl 940⁸
- C₂₂H₁₄Br₂O₂** 2,5-Piperazinedione, 3 6 bis
 (3,5-dibromo-4 hydroxybenzyl) diacetate, 288²
 2,5-Piperazinedione, 3 6 bis(3,5-dibromovaleryl), diacetate, 288²
- C₂₂H₁₄ClNO₂** Oxamyl chloride *N* V di 2 naphthyl, 294⁴
- C₂₂H₁₄Cl₂** Benzofulvene, 2 3-dichloro 8 8-diphenyl, 1237³
- C₂₂H₁₄Cl₄** Indan 1 1 2 2 tetrachloro 3-d phenyl methylene, 1238³
- C₂₂H₁₄Cl₂CuN₂O₂** Diquinoline pic trichloro acetate, 683⁴
- C₂₂H₁₄N₂O₂** 1,2 8 Naphthazolesdione 3 (2 naphthyl) oxime 294⁴
- C₂₂H₁₄N₂O₂S₂** [3⁷] (8⁴) Bithionaphthene
 [α 4 β]thiazole] 8 8 dione 2 2
 tetramethyl, 450⁶
- C₂₂H₁₄N₂O₂S₂** [3⁷] (8⁴) Bithionaphthene
 [α 4 β] p isothiazine] 2 2 9 9 (3 3)
 tetraene 6 6-dimethyl 450⁶
- C₂₂H₁₄N₂O₂** Fluoran dimethyl 4 α d nitro
 541²
- C₂₂H₁₄N₂O₂** Pyridazo[4 5 *a*] bithiazined of
 diphenyl 1821⁹ 1822¹
- C₂₂H₁₄N₂O₂** α Benzocarbazole picrate 2 α
C₂₂H₁₄N₂O₂ Ketone 8 hydroxy α qu nols
 phenyl picrate 106⁷
- C₂₂H₁₄N₂O₂** 1 thalamine acid *N* *N* (4 6 di
 nitro *m* phenylene) is 3743³
- C₂₂H₁₄N₂O₂** 1 (4 Pyridyl)pyridinium picrate
 picrate 3999²
- C₂₂H₁₄O₂** Compd *m* 246² from 2(or 3) bromo
 8,8-diphenylbenzofulvene 1238³
 6,13 Pentacenediyl 6 13-dihydro cyclic
 peroxide, 2141⁸
- C₂₂H₁₄O₂** [1,1] Dinaphthalene] 8 8 dicarboxylic
 acid 4872³
- C₂₂H₁₄O₂S₂** 2 Naphthoic acid 1 1 dithiobis
 2721⁸
- C₂₂H₁₄O₂** Benzoic acid *p* *p* (β phenylene)
 carbonyl]bis-, 5673⁴
- C₂₂H₁₄O₂** Ellagic acid tetracetate 2110⁵
- C₂₂H₁₄Br** Benzofulvene, bromo 8 8 diphenyl
 1237³ 1238³
- Ethylene, 2 bromo-1 1 di 1 naphthyl 1516⁵
C₂₂H₁₄BrN₂O 1 4 Naphthoquinonimine 2
 amino-6 bromo *N* phenyl 946⁸
- C₂₂H₁₄BrO₂S** 1 Thionaphtheneacetic acid 2
 bromo-α α diphenyl (?) 2141⁸
- C₂₂H₁₄Cl** Benzofulvene chloro 8 8-diphenyl
 1237³ 1238³
- C₂₂H₁₄ClN₂O₂** Glyoxime chlorophenyl di Br
 deriv 1490⁴
- C₂₂H₁₄NO** Indeno[1 2 β]indole 5 benzoyl 5 10
 dihydro- 1023¹
- C₂₂H₁₄N₂O₂** Oxime, *m* 246² of compd from
 mono Br deriv of dibenzofulvene 4235⁴
- C₂₂H₁₄N₂O₂** 1 Anthraquinonecarboxamide 2
 methyl 2990⁹
 1,2 Benzopyran, 2 benzalnitro-3 phenyl
 4882³ 4883¹
- Oxamic acid *N* *N* di 2 naphthyl, 294⁴
C₂₂H₁₄N₂O₂S Anthraquinone, 1-amino 2 phenacyl
 mercapto-, 2723¹
- C₂₂H₁₄NO** Acid *m* 171⁴ from 1 phenyl 3
 phthalidene 2 ketoindole 2 3 dihydride,
 294⁴
- C₂₂H₁₄NO₂** Fluoran 2 7-dimethyl 4 nitro-,
 541²
- C₂₂H₁₄NO₂S** Chalcone 3 4 methylenedioxy 4'
p nitrophenylmercapto] 2127⁷
 2(1) Naphthalenone 1 (2 hydroxy 1 naph
 thylmercapto) 1 nitro- acetate 4257⁷
- C₂₂H₁₄N₂** Imidazo[4 β]quinoline 2 3 di
 phenyl 3442⁹
 Ro induline 4585⁹
- C₂₂H₁₄N₂O** Anthra[2 1 6]pyrrole 1 2 dione
 phenylhydrazone 949⁹
- C₂₂H₁₄N₂O** (4) Imidazolone 4 (α nitrobenzyl)
 1,1 diphenyl 3342⁹
- 4(1) Quinazoline 3 dibenzoylamino- 4882⁴
- C₂₂H₁₄N₂O** 1 Thionaphthene methoxymethylene
 dioxy picrate 3663³ 3655⁴
- C₂₂H₁₄N₂O** 1 Methyl 2 (*m* nitrophenyl)quino-
 line *m* picrate 206⁷
- C₂₂H₁₄O** 2 Anthra[9,1 β] 6 furanoxyl 2
 hydroxy 3 methyl 2 phenyl 3990⁹
- C₂₂H₁₄** Benzofulvene 8 8 diphenyl 1237³
 ethylene α di 1 naphthyl 1516⁵
 1-ene dicyclo 2141⁸
- C₂₂H₁₄BrN₂O** Phthalazine 4 acetic acid 1
 hydroxy 3 (2 6 dibromo 4 nitro
 phenyl) 1 3 dihydro anilide 42³
- C₂₂H₁₄BrO** 1 1 bis(4 ethyl 6 6 di bromo 2 2
 d methoxy) 1029¹
- C₂₂H₁₄BrO** 1(2) β Naphthofuranone 2 bromo
 (α 1 romovanillyl) acetate 3340¹
- C₂₂H₁₄ClN₂O** Phthalazine 4 acetic acid 1
 hydroxy 3 (2 6 dichloro 4 nitro
 phenyl) 1 3 dihydro anilide 42³
- C₂₂H₁₄MoN₂O** 5639¹
- C₂₂H₁₄N₂** Indeno[2 3 β]quinoline 11 amino
 374⁷
- C₂₂H₁₄N₂O** Oxamide *N* V-di 2 naphthyl 294⁴
 3 α Pyrazolindione 4 benzal 1 2-diphenyl
 2143³
- C₂₂H₁₄N₂O** Benzo[cyclopent[β]indole 7 1 en
 zoyl 7 8 9 10 tetrahydro 5(?) nitro-
 1573¹
- C₂₂H₁₄N₂O** Indeno[1 2 β]indole 5a(5) ol 5 ben
 zoyl 10 10a dihydro 10a nitro
 1023¹
- C₂₂H₁₄N₂O** Maleic anhydride compd with
 benzalazine 2419⁹
- C₂₂H₁₄N₂O** Quinazoline 2 4 bis(carboxy
 amino) *HCl* 5899⁴
- C₂₂H₁₄N₂O** 1 Methyl 2 phenylquinobutium pic
 rate 206⁷
- C₂₂H₁₄N₂O** Isoquinoline 1 β anisyl, picrate,
 297¹
- C₂₂H₁₄O** 1 2 Benzopyran 2 benzal-3 phenyl,
 4882³
- C₂₂H₁₄O** 2 Anthracic acid benzyl, 5420⁹
 9 Anthrol 2 phenyl, acetate, 4546⁴
- C₂₂H₁₄O** 1 Thionaphtheneacetic acid, α α
 diphenyl (?) and *Na* salt, 2143³
- C₂₂H₁₄O** Fluoran dimethyl, 5415²
 9 Fluoreneacetic acid, 9 benzoyl, Me
 ester 4234⁴
- C₂₂H₁₄O** 2 2 Naphthol, 1,1' thiobis-, acetate,
 4257⁷
- C₂₂H₁₄O** 2 Anthracic acid benzyl dihydrohydroxy-
 keto-, 5420⁹
 α 12 Naphthacenediol, diacetate, 3645⁷
- C₂₂H₁₄O** 1(2) β Naphthofuranone, 2 vanillyl,
 acetate, 3340¹
- C₂₂H₁₄O** Maleic anhydride, compd with α α
 diphenylethylene, 2419⁹

- C₁₀H₈O S₂** Quinol 4,4 (1,5 naphthylenedisulfonyl) 3340⁶
- C₁₀H₈O** Anthraquinone 2,3,6,7 tetrahydroxy, tetracetate 934²
- C₁₀H₈AsN O₂** Benzeneselenic acid, *p*-(4 (2,4-dihydroxyphenylazo) 1 naphthylazo), 9
- C₁₀H₈BrClO₂** Butyric acid β (*p* bromophenyl) α γ bis(*p* chlorophenyl) β hydroxy, 956
- C₁₀H₈Cl** Propene 3-chloro 3,3-diphenyl 1 *p* tolyl 1061²
- C₁₀H₈ClO** Anisole *p* (chlorodiphenylpropargyl) 4033²
- C₁₀H₈ClO₂** 2 Benzyl-3 phenylbenzopyrylium perchlorate 4882²
- C₁₀H₈N** Pyrrole 1,2,3 triphenyl 3995¹
- C₁₀H₈NO** Benzox(cyclopent[β]indole 7 benzoyl 7 8 9 10 tetrahydro- 1022²
- 4-Quinolol 2 benzyl 3 phenyl 2431¹
- C₁₀H₈NO₂** Acetamide (benzoylfuoryl), 5158¹
- Propionic acid α -cyano- β triphenyl 2991²
- C₁₀H₈NO₂** Benzopyran methoxy 6-nitro-2,3 diphenyl 4883²
- C₁₀H₈NO₂S** Chalcone 4 methoxy 4 (*p* nitro phenyl)mercapto, 232²
- C₁₀H₈N₂O** Quinolone 2 amino-3 benzamido-3342²
- C₁₀H₈N₂O₂** Cinnamamide α benzamido- α -nitro- 3342²
- Glyoxyldihydroxamide α phenyl, oxime, di Br deriv 3623²
- C₁₀H₈N₂O** Anthracene 9,10-dimethyl, picrate, 3310⁶
- Phenanthrene 1,7-dimethyl, picrate, 1232¹
- C₁₀H₈N₂O₂** Phenanthrene 1,7-dimethyl, styphnate 1232¹
- C₁₀H₈N₂O₂** Triazene 2-(2,3-d keto-5-phenyl 1 pyrrolidyl) 1 (*p* nitrophenyl) 3 phenyl, 699²
- C₁₀H₈N₂O₂** Phthalazine 1 benzyl 7 methoxy, picrate, 297²
- C₁₀H₈NaO₂** 1,2-Benzopyran 2-ol, 2 benzyl 3 phenyl (?), Na deriv, 4882²
- Δ^2 Butenone 1,3-diphenyl-4 salicyl (?) Na deriv, 4882²
- C₁₀H₈** Benzene, *p* bis(α methylenebenzyl), 4238²
- C₁₀H₈BrNO** Chalcone, β benzylamino- α bromo-, 4248¹
- C₁₀H₈BrNO₂S** Acenaphthenesulfonic acid bromo-, naphthylamine salt, 1518²
- C₁₀H₈BrNO** Oxindole, 5 bromo-3 (*p*-dimethylamino)phenylamino) 1 phenyl, 293²
- C₁₀H₈Br₂N₂O₂** 2,5-Piperazinedione, 3,6-bis (3,5-dibromo 2 hydroxybenzyl) diacetate, 288¹
- C₁₀H₈ClN₂** Quinaldine, α ,4-diamino 3-chloro-, and HCl 2430²
- C₁₀H₈ClO₂** Butyric acid, α γ bis(*p*-chlorophenyl) β hydroxy β phenyl, 2956²
- C₁₀H₈N₂O** Phenol *p*-(β -amino-2 naphthyl amino), P 5434²
- 2 Pyrrolidone, 1,5-diphenyl 3 phenylamino-, 699²
- C₁₀H₈N₂O₂S** 1,5-Naphthalenedisulfonamide 3340⁶
- C₁₀H₈N₂O₂S** Benzenesulfonic acid, *p*-(*p*-nitrobenzylazo), naphthylamine salt 287²
- C₁₀H₈N₂O₂** 1,2 Butanedione 1 (2,4-dihydroxy phenyl), 1 bis (2,4 dimethylphenylhydrazonol), 1510⁶
- C₁₀H₈O** Anthrone, dimethyl 10-phenyl, 2994¹, 3646¹, 4040²
- Ethanol, 1,1-di 1 naphthyl, 1516¹
- Ether, methyl triphenylpropargyl, 1501²
- C₁₀H₈O₂** Thioaphthene, 5-methyl 1 phenoxy-2 *p*-tolyl, 4260¹
- C₁₀H₈O₂** Acrylophenone, β , β -diphenyl-, 4533¹
- Benzene *p*-di *p* tolyl, 5673¹
- 1,2 Benzopyran, 3 methoxy 2,4 diphenyl-, 5113¹
- 1,2 Benzopyran 2-ol, 2 benzyl-3 phenyl (?), 4882²
- 2,2 Binaphthyl, 1,1'-dimethoxy, 4205¹
- Δ^2 Butenone, 1,3 diphenyl 4 salicyl- (?), 4882²
- 2(1) Naphthalenone, 1 methyl 1 (1 methyl-2 naphthoxy), 947¹
- Naphthol, ethylenebis, P 1261¹, 5100¹
- 2 Propen 1 ol, 3 *p*-anisyl-1,1 di phenyl, 4533¹
- C₁₀H₈O₂S** Disulfide, bis(2 methoxy 1 naphthyl), 3330²
- C₁₀H₈O₂** Acetic acid, benzoyldiphenyl, Me ester, 4204¹
- Acetophenone, α salicyl, α -toluate, 4882²
- 1,2 Cyclohexenedicarboxylic anhydride, 3 phenoxy 6 styryl, 1514²
- C₁₀H₈O₂S** Benzoic acid, α -(6 *p*-tolylmercaptomethyl), 1828²
- C₁₀H₈O₂** Benzophenone, 4-hydroxy 2,6-dimethoxy, benzoate, 4250¹
- C₁₀H₈O₂** 1,2,4,5-Benzene-tetrol, 3,6-diphenyl, 1,4-diacetate, 3630²
- Meconin 2 (hydroxynaphthyl), acetate, 4519²
- C₁₀H₈O₂** 4 Chromone 3 (3,4-dihydroxybenzyl) 7 hydroxy, triacetate, 1534¹
- 1,8,9,10-Phenanthrenetetracarboxylic acid, tetra Me ester, 3337²
- C₁₀H₈S₂** Benzene, *m* bis(α -methylenebenzylmercapto), 1527²
- C₁₀H₈BrO₂ Δ^1** 1,4 Cyclohexadienedimaleic acid, 2 (4 bromo 2 methoxy)-3,6-diketo-5-methyl, 5410²
- C₁₀H₈N** Aniline, *N* (α , γ -diphenyl Δ^1 -butenyl idene), 262²
- C₁₀H₈NO** Anthrone, 10-amino-dimethyl, 2990¹, 3646¹, 4547²
- Oxindole 3,3-dibenzyl, 3425²
- Δ^2 Pyrrolidone, 1,4,5-triphenyl 3994¹
- C₁₀H₈N₂O₂S** Malonamic acid α ω -diphenyl- β thio-, Me ester, 4204¹
- C₁₀H₈NO₂** Malonamic acid, *N* triphenylmethyl, 2901²
- C₁₀H₈NO₂S** Benzoic acid, α -(6 *p*-tolylmercaptomethyl) oxime, 1828²
- C₁₀H₈N₂** 1,3,4 Triazole, 2 benzyl 5-phenyl 1 *m* tolyl, 2952¹
- C₁₀H₈N₂O** Oxindole, 3 (*p*-dimethylaminophenyl amino) 1 phenyl, 294¹
- 1,3,4 Triazole 1 *p*-anisyl 2 benzyl 5-phenyl, 2952¹
- 1,3,4 Triazole, 1 *p* phenetyl 2,5-diphenyl, 2952¹
- C₁₀H₈N₂O₂S** Benzal, thio-4 *p*-tolylsemicarbazone 1220¹
- C₁₀H₈N₂O₂S** Benzenesulfonic acid *p*-phenyl α ω , naphthylamine salt, 287²
- C₁₀H₈** 1,3,5,7,9 Decapentaene, 1,10-diphenyl 1719²
- 1 Propene 2 methyl 1,1,3 triphenyl, 4206¹
- C₁₀H₈Br₂N₂O₂** Bis(*p* bromobenzyl)dimethyl ammonium picrate, 91²

- C₂₂H₂₀Cl₂ *p* Xylene, α, α' -dichloro- α, α' -di *p* tolyl, 5673²
- C₂₂H₂₀N₂ Imidazole, 2,3-dihydro-2,4-diphenyl 1 *p* tolyl, 5141²
- C₂₂H₂₀N₂O Δ^2 -Pyrroline, 3 *p* amyl 1,5-di phenyl, 1819¹
- C₂₂H₂₀N₂O₂ Benzene, *p*-di *p* tolyl, dioxime, 5673²
- o*-Benzenediacetamide 3340²
- Oxamide *N'* phenyl γ -di *p* tolyl 294²
- C₂₂H₂₂N₂O₂ I hemetole 2,4-dibenzamido-, 2984²
- Urea α -(*o* benzoylphenoxy) α ethyl β phenyl, 1200²
- C₂₂H₂₂N₂O₂ Cresotoluide, α (*p*-hydroxyphenyl carbamyl) *P* 3670²
- Phthalimide, *N*, *N* hexamethylenbis 452²
- C₂₂H₂₂N₄ 4,4-Dipyridine compd with benzidine, 5426²
- C₂₂H₂₂N₄O₂ Quinoxaline, 2,4-diamino-, acetate 5899²
- C₂₂H₂₂N₄O₂ Acetophenone α benzylmethyl amino, picrate 91²
- C₂₂H₂₂N₄O₂ Anabasine dipicrate 331²
- C₂₂H₂₂O Benzophenone 5 benzyl 2,4-dimethyl 3990²
- Benzophenone *p* methyl *p* (*p* methyl benzyl), 5673²
- 2 Butanone 4 triphenyl 2991²
- Ketone 2 methyl 1 naphthyl 5,6,7,8-tetrahydro 2 naphthyl 271²
- C₂₂H₂₂O₂ Propiophenone β phenyl β *p* tolyl mercapto-, 4850²
- C₂₂H₂₂O₂ Tropionic acid β triphenyl *Me* ester 4204²
- C₂₂H₂₂O₂S Ethylenesulfenic acid 1 phenoxy 2,2-diphenyl *Et* ester 4263²
- C₂₂H₂₂O₂ Benzoic acid 2 methoxy-4,6-di phenyl *Et* ester 3327²
- Butyric acid β hydroxy α β γ triphenyl, 2986²
- C₂₂H₂₂O₃ 1,2-Cyclohexenedicarboxylic acid 3 phenyl 6-methyl 1514²
- C₂₂H₂₂O₃P₂ Ethylenephosphonic acid 2,2-*p*-phenylenebis(2 phenyl 4239²
- C₂₂H₂₂O₃ 4-Chromanone 3 (3,4-dihydroxybenzyl) 7 hydroxy triacetate 1534²
- 4-Chromanone 7,8-dihydroxy 3 veratral di acetate 1534²
- C₂₂H₂₂FN₂O₂ Dibenzylamine, *p* fluoro-*N* *p* di methyl picrate 920²
- C₂₂H₂₂IN₂ Ethylred 1910²
- C₂₂H₂₂N Quinaldine 1,2,3,4-tetrahydro- α, β di phenyl, 2431²
- C₂₂H₂₂NO Benzophenone *p* methyl *p* (*p* methyl benzyl) oxime 5673²
- C₂₂H₂₂NO₂ Acetic acid (*p*-dimethylamino phenyl) diphenyl 1235²
- C₂₂H₂₂N₂O Benzaldehyde 2 benzyl 4 *p* tolylsemi carbazone 2701²
- 2,4-dibenzylsemicarbazone, 2701²
- C₂₂H₂₂N₂O₂ Benzoin thio 4 *p* tolylsemicarbazone, 1223²
- C₂₂H₂₂N₂O₂ Urea, α -(*o*-benzoylphenoxy)- α ethyl β phenyl, oxime, 1200²
- C₂₂H₂₂ α Dibenzanthracene, octahydro- 2717²
- p* Xylene, α, α -di *p* tolyl 5673²
- C₂₂H₂₂Br₂O₂ Spiro[camphane 2 9 xanthene] 3,6-diol, dibromo deriv 3644²
- C₂₂H₂₂Br₂O₂ Spiro[camphane 2 9 xanthene] 3',6'-diol, di *K* deriv 3644²
- C₂₂H₂₂N₂ Indeno[2,3 β]quinoline, 11 amino 6a 7 8 9, 10, 10a hexahydro-, and -*HCl* 3347²
- C₂₂H₂₂N₂O₂ 2,5-Piperazinedione, 3,6-bis(*m* hydroxybenzyl) diacetate, 288²
- C₂₂H₂₂N₂O₂ Hydrazine 4 bis(β 3 indolylpropionyl) 4880²
- C₂₂H₂₂N₂O₂ Triacetyl deriv, *m* 273² of compd *m* 208² 5428²
- C₂₂H₂₂N₂O₂S Anthranilindisulfonic acid creatinine salt 101²
- C₂₂H₂₂N₂O₂ Isophthalaldehyde bis(4 amino-semicarbazone) 3634²
- C₂₂H₂₂N₂O₂ Theotomine 1 (β aminopropyl) picrate 1031²
- C₂₂H₂₂N₂O₂ *o*-Xylylenediamine 4,5-dimethoxy picrate 1223²
- C₂₂H₂₂O₂ 1,2-Propanediol 2 benzyl 1,3-di phenyl 4860²
- α *p*-Xylenediol α α -di *p* tolyl 5673²
- C₂₂H₂₂O₂ 1,2-Propanediol 3 methoxy 1,3,3-tri phenyl 941²
- C₂₂H₂₂O₂ Benzene 1,4-dimethoxy 2,5-di *p* tolyl oxy, 4537²
- Carbinol transyl 99²
- Cyclohexanecarboxylic acid 3 benzyl 2,4-diketo- β -phenyl, *Et* ester, 667²
- Hydroquinone 2,5-bis(methylamyl) 3978²
- C₂₂H₂₂O₂ *o*-Veratric acid 6 (2 methoxy 1 naphthylmethyl), *Me* ester 4519²
- C₂₂H₂₂O₂ Acetyl deriv, *m* above 300² of compd from triobissemimethylmethane *MeI* 2731²
- Phloroglucinolcamphorene 940²
- C₂₂H₂₂O₂ Daidron methyl 5673²
- C₂₂H₂₂S Benzene *m* bis(phenethylmercapto) 1527²
- C₂₂H₂₂AsBrI Benzylethylidiphenylarsonium iodide CHBr₃ compd 282²
- C₂₂H₂₂AsI₂ Benzylethylidiphenylarsonium iodide CHCl₃ compd 282²
- C₂₂H₂₂NO Naphthol (α 1 piperidylbenzyl), 512², 2715²
- C₂₂H₂₂NO₂ Cinchophen 6,8-dimethyl, *Bu* and isobutyl esters *P* 5012²
- C₂₂H₂₂NO₂ Cinchophen 4 hydroxy 3-isopropyl 2 methyl *Et* ester 4884²
- C₂₂H₂₂NO₂ Benzo[*g*]phenanthridine 5,6-dihydro-2,3,7,8-tetramethoxy 5 methyl 5899²
- C₂₂H₂₂NO₂ See *Narcotine*
- C₂₂H₂₂N₂O₂ Acetophenone, α *p* tolueno- methyl phenylhydrazine 4533²
- C₂₂H₂₂BrN₂O₂ 2-Pyrrolicarboxylic acid, 4 (β bromovinyl) 5 formyl 3 methyl *Et* ester *annc*, 1520²
- C₂₂H₂₂Cl₂O₂ Anisic acid, 3,3 (β β dichloroethyl idene)bis di *Et* ester, 5412²
- C₂₂H₂₂ClN₂Pt 2-Ethylisoquinolinium chloroplatinate 4000²
- C₂₂H₂₂N₂O Camphor, 3 (β -aminophenylamino), 98²
- C₂₂H₂₂N₂O₂ Cinchophen, β diethylaminoethyl ester and *HCl*, 4883²
- C₂₂H₂₂N₂O₂ Vomone, 3391²
- C₂₂H₂₂N₂O₂S α Nuphtol orange hexyl, 2993²
- C₂₂H₂₂O 2 Buta 1-ol, 4 cyclohexyl 1,1-di phenyl, 487²
- C₂₂H₂₂O Cyclobutane 1,2-diphenyl 3,4-dipropionyl, 1507²
- C₂₂H₂₂O Δ^2 -3-Heptenone, 1 *m* amyl; 4 (*m* methoxybenzyl), 2132²
- 1 Naphthalene glyoxylic acid, bornyl ester 2904²

- Sp ro[camphane 9 xanthene] 3 6 diol 3644¹
- C₂H₅O₄ Trisilic acid mono Bu ester 1300²
- C₂H₅O₄ m Dioxane 5 3-decarbinol 2 2-di methyl dibenzoate 1501³
- C₂H₅O₄ Tectoridin 339⁴
- C₂H₅ClO₄ (M⁺ Ba 1 4 pyram) 2 2 6 6 - tetracarboxylic acid tetra Et ester *mes* perchlorate 2428⁵
- C₂H₅N₂O₄ Cyclobutanecarboxamide V ethyl 2 3 diphenyl 4 propionyl 150⁷²
- C₂H₅N₂O₄ Truxillamide acid Bu ester, 1500¹
- C₂H₅N₂O₄ See *Colchicine*
- C₂H₅N₂O₄ Cannabiviol trimetro-, Me ether, 3⁷²²
- C₂H₅P Pentaphosphane diethyltriphenyl 2⁷⁰²
- C₂H₅ClNO₄ Codide chloro- acid tartrate 3653⁹
- C₂H₅Cl₂N₂O₄Pt 4-Pyrazolol 2-methyl 1 phenyl methyl chloroplatinate 3342⁴
- C₂H₅INO₄ Homotribobenemethylmethane meth iodide 2⁷³²
- C₂H₅INO₄ Allodihydroanhydrocryptopine methiodide 123²
- C₂H₅N₂O₄ Camphor 3 (p anisoinamino) 95² Ketone 1 β diethylaminoethyl 2 methyl 3 indylphenyl P 3249⁹
- C₂H₅N₂O₄ 2-Cyclohexanediacetamide 3346⁴ 1 1 Cyclopentanediacetamide 3 methyl, 4234¹
- C₂H₅N₂O₄ 1 2 Cyclooctanediol dicarbamate, 29⁷²
- C₂H₅N₂O₄ S; Acetic acid [(1 (β-dimethylamino- styryl) 5 methyl 4 benzothiazolyl) mercapto] methosulfate 4331¹
- C₂H₅N₂O₄ Piperidine 1 (1 2 3 4 tetrahydro-1 methoxy 2 naphthyl) picrate 2139¹
- C₂H₅N₂O₄ Anthrarufindisulfonic acid, crea tione salt 101¹
- C₂H₅O₄ P 1337³
- 1 Naphthalenegrignol acid, menthyl ester 2994⁴
- Pelargonophenone β hydroxy-, benzoate 1220¹
- C₂H₅O₄ Adipic acid β γ-diphenyl di Et ester 98¹
- Naphthalic acid menthyl acid ester and salts, 2713²
- C₂H₅O₄ 1,10 Decanedione 1 10 bis(2 4-dihydroxyphenyl), P 2⁷³
- Deritol dihydro-, Me ether, 103⁴, 5423⁴
- Derivole acid, methyl 103⁴ 4563⁹
- C₂H₅N₂O₄ β Glucovanillin O tetraacetyl 1233¹
- C₂H₅IN₂O₄ Methiodide decomps 230¹, of compd in 194-6°, 34⁷³
- C₂H₅NO₄ Des-γ methyl tetrahydroanhydrocryptopine 1232¹
- C₂H₅NO₄ Glucosamine, N (β methoxybenzyl idene) tetraacetate, 3363⁴
- C₂H₅N₂O₄ Galactose, pentaacetate, p nitrophenylhydrazones, 3402¹
- C₂H₅FeN₂O₄ 3,482¹
- C₂H₅INO₄ Anhydrocryptopine, tetrahydro-, methiodide 1252¹
- Glaucon methiodide, 518¹
- C₂H₅N₂O₄ Quinine ethyl, 18,9⁹
- C₂H₅N₂O₄ See *Isomides*
- C₂H₅N₂O₄ Oxamide, N, N - bis(3 4 - dimethoxybenzyl), 5405¹
- C₂H₅N₂O₄ Galactose, pentaacetate phenyl hydrazones, 3402¹
- C₂H₅N₂ See *Calycanins*
- C₂H₅N₂O₄ Etheno[4 8]pynodacene, 1,2 3a, 4a, 6,7 7a 8a octahydro 3,5,8 trimethyl, picrate, 1830²
- C₂H₅O₄ Phenol, β nonyl, benzoate, 1229⁴
- C₂H₅O₄ Anthracene, 9,10 - diethyl 9, 10-di hydro 2,3,6,7 - tetramethoxy, 4538¹
- Croctan di Me ester, 5142¹
- C₂H₅NO 1 Piperidinethanol, α phenyl α - (γ phenylpropyl), HCl, 4276¹
- C₂H₅NO₄ Compd, m 127¹, from nitration of hydromethylmangostin, 4277¹
- C₂H₅NO₄ Desoxycodeine, dihydro-, acid tartrate, 3656⁴
- C₂H₅NO₄ Sinomenane, methyl, methosulfate, 1551¹
- C₂H₅NO₄ Codeine, dihydro-, acid tartrate, 3004¹
- C₂H₅CD₄O₄S₂ Ethylmethylphenacylsulfonium cadmetetrasulfide, 690¹
- C₂H₅HgCl₂O₄S₂ Ethylmethylphenacylsulfonium mercuritetrasulfide 690¹
- C₂H₅HgO₄ Hydrocinnamic acid, α (acetoxy mercuri) β methoxy, bornyl ester, 1231¹
- C₂H₅INO₄ Sinomenane, bis(hydroxymethyl), methiodide, 2147¹
- C₂H₅N₂O₄ Aspidospermine 1002¹
- Benzoyl deriv, m 195¹, of base from lupanine and chloroaurate, 3006¹
- C₂H₅O₄ 3 Bornylencarboxylic anhydride, 5156¹
- C₂H₅O₄ Pyrethrin II, 666¹, 1024¹
- C₂H₅O₄ Methyl ester, m 240¹, of lactone acid from quodephanthoic acid, 5173¹
- C₂H₅O₄ Malonic acid, *o/m* and *p* xylylenes, tetra Et ester 936¹
- C₂H₅BrN₂O₄ Lysine, γ benzoyl γ⁺ [V - α-bromoisocaproyl]alanyl, 2974¹
- C₂H₅O₄ Asacardic acid, 2986¹
- C₂H₅O₄ Machelol, dihydroxy, benzoate, 2989¹
- C₂H₅N₂O₄ Lysine, N⁺ benzoyl N⁺ (N - leucylalanyl), 2974¹
- C₂H₅N₂O₄ Cyclohexylamine 4 (β cyclohexylethyl) N, N dimethyl, picrate, 5418¹
- C₂H₅O₄ 7 Hendecadecan 6 ol, 6 - (3,4 - dimethyl 1 - pentyl) - 2,2,10,10 - tetramethyl, 456¹
- C₂H₅O₄ Borneol 2 2' ethylylenes, 2710¹
- C₂H₅O₄ Isogathic acid, di Me ester 1232¹
- C₂H₅O₄ Dipentaerythritol, hexaacetate, 1486¹
- C₂H₅Br₂O₄ Corebors, bromo-, dibromide, 3657¹
- C₂H₅N₂O₄ Isobertylamine, N ethyl - β - isopropyl, picrolonate 1809¹
- C₂H₅ Compd, bps 198-200¹, from benzene treated with H₂SO₄, 3463⁴
- C₂H₅Cl₂Pt₂ Trimethyl 2 5 - xylolbiphosphonium chloroplatinate, 2702¹
- C₂H₅N₂ Benzimidazole, 2 pentadecyl, 1800¹
- C₂H₅O₄ 2 6 Xylenol, 4 - dodecyl acetate, 929¹
- C₂H₅O₄ Asacardic acid, tetrahydro-, 2986¹
- C₂H₅O₄ Isogathic acid, dihydro- di Me ester, 1232¹
- C₂H₅O₄ Tribanic acid from α amyrin and O₂ 2989¹
- C₂H₅O₄ Corebors 3657¹
- C₂H₅ Hexadecane 1 phenyl 3469¹
- C₂H₅N₂O₄ Cetylamine picrate 2626¹
- Tetra-*n*-butylammonium picrate, 2626¹
- C₂H₅N₂O₄ Piperitone dimer semicarbazone, 1513¹

- C₂₂H₁₈O₄ Dibasic acid, from α -amyris and O₂ 2089¹
- C₂₂H₁₈O₅ Digitalin, 349¹, 2196¹
- C₂₂H₁₈F Phosphine, d octylphenyl, 5662⁴
- C₂₂H₁₈O₂ Behenic acid, 1134¹
- C₂₂H₁₈O₂ Acetic acid (3 p menthyl, oxy) menthyl ester, 5672⁴
- C₂₂H₁₈O₂ Stearic acid, α -acetyl β keto- Et ester, 3978¹
- C₂₂H₁₈O₂ Agaric acid 1219²
- C₂₂H₁₈BrO₂ Behenic acid bromoketo- 71⁴
- C₂₂H₁₈ClO₂ Behenic acid, chloroketo- 71⁴
- C₂₂H₁₈NO₂ Hydnoic acid β -diethylamino-ethyl ester, 1775²
- C₂₂H₁₈O Δ^{11} 10 Heneicosenone 12 methyl 3312²
- C₂₂H₁₈NO₂ (See also *Brassicic acid* - *Truncic acid*) Oleic acid, Bu ester 17441¹ 4625²
- C₂₂H₁₈O₂ Crocetin tetradecahydro di Me ester 5143¹
- 5 m Dioxanol, 2 2 dimethyl palmitate 76²
- 1 20-Licosanedicarboxylic acid 3320² 3321¹
- C₂₂H₁₈O₂ Undecylic acid α α dithiolis 3314²
- C₂₂H₁₈NO₂ Nonylamine β amyl V cyclohexyl acid oxalate 1809¹
- C₂₂H₁₈O₂ Behenic acid 189 277¹ 1801¹
- Stearic acid Bu ester 3182² 4625²
- C₂₂H₁₈O₂ Phellonic acid 3320² 3
- C₂₂H₁₈Docosane 1 octo- 277¹
- C₂₂H₁₈NO₂ Behenic acid ϕ -amino and HCl 490⁴
- C₂₂H₁₈Docosane 4773²
- C₂₂H₁₈N₂O₂ 1 4 Piperazinediethanol α α diethyl α α dimethyl and di HCl 517¹
- C₂₂H₁₈N₂O₂ 1 4 Piperazinediethanol α α bis(hexyloxy)methyl di HCl 518¹
- C₂₂H₁₈O 1 Docosanol 277¹
- 8-Pentadecanol 8 heptyl 2113
- C₂₂H₁₈Cl₂N O₂Choline hexoyl chloro platinate 3315¹
- C₂₂H₁₈NO₂ Dibenzof[4,5]pyrenemethine 6 12 dihydro 6 12 diketo- P 1094¹
- C₂₂H₁₈BrO₂ 3 2 α Anthrathophene 6 11 dione 1 hydroxy p bromobenzoate 2723¹
- C₂₂H₁₈Br₂NO₂ Spiro[isobenzofuran 1(2) 12 xantheno[2 1 β]pyridin] 2 one dibromo 9 hydroxy 5415²
- C₂₂H₁₈NO₂ 7,8 β Naphthoquinoline 7 12 dione 2 hydroxy 3 phenyl K deriv 947¹
- C₂₂H₁₈O₂ 3 2 α Anthrathophene 1 6 11(2) trione 2 benzal 2723¹
- C₂₂H₁₈NO₂ 3 Benzo[β]thiophanthrene 6 11 dione, 8(and 9) (phenylmmonomethyl) 5167¹
- C₂₂H₁₈NO₂ 7,8 β Naphthoquinoline 2(1) 7 12 trione 3-phenyl 947¹
- C₂₂H₁₈NO₂ Spiro[isobenzofuran xantheno pyridin]one hydroxy, 5415²
- C₂₂H₁₈NO₂ Phtalimide N (3 4 dihydroxy 2 anthraquinonylmethyl) 1242¹
- C₂₂H₁₈ClO₂ Phenolsulfonephthalimide 4 5 6 7 tetraodo-, diacetate 311¹
- C₂₂H₁₈N₂O₂ 6,11 β Anthrathiazolodione 2 (m-acetamidophenyl), 2724¹
- C₂₂H₁₈O₂ α Dibenzanthraquinone 3 methyl 1818¹
- C₂₂H₁₈NO₂ Anhydroxylyl α anthraquinonyl ketone oxime, 2996¹
- C₂₂H₁₈NO₂ Phtalimide, V (dibenzyl)methyl, 3645¹
- C₂₂H₁₈ α Dibenzanthracene methyl 2716²
- C₂₂H₁₈N₂O₂ Naphthol, phenylazo- benzoate 5151¹
- C₂₂H₁₈N₂O β Naphthoxazole 1 2 dihydro 2 (β phenylazophenylmmonio) 2423²
- C₂₂H₁₈O Δ^{11} Cyclohexadienone 4 (1 naphthyl phenylmethylene) 5673
- C₂₂H₁₈O₂ Furorene 9 - (3 4 methylendioxy cinnamal) 1235²
- C₂₂H₁₈O₂ Anthraquinone 1 - (2 5 xylyl) 2996¹
- C₂₂H₁₈O₂ 7 8 Benzoflavone 3 4 dihydroxy diacetate 4267¹
- C₂₂H₁₈ Methyl (1 naphthyl)d phenyl 5629¹
- C₂₂H₁₈Br₂O₂ 2 Naphthol phenylazo compd with BrBr 3122¹
- C₂₂H₁₈Br₂NO₂ Barbituric acid 5 benzyl 5 bromo-1 3-diphenyl 5400²
- C₂₂H₁₈N Acridan 5 (1 naphthyl) 297¹
- Quinolone 2 β β diphenylvinyl 1829²
- C₂₂H₁₈NO₂ Anthraquinone 1 benzoyl ethyl oxime 3336¹
- Anthraquinone 1 (2 5 xylyl) oxime 2996¹
- Ketone p an syl 3 4 di phenyl 5 isoxazolyl 105²
- Oxamic acid N N di 2 naphthyl Me ester 294¹
- 3 Pyrrolenone 2 an syl 4 5 diphenyl 1 oxide 105²
- 2 4 Xylamide N 1 anthraquinonyl 2996¹
- C₂₂H₁₈N₂O₂ Cinchophen 6 hydroxy benzal hydrazide 4883²
- C₂₂H₁₈N₂O₂ 2 Anthraldehyde 1 acetamido 9 10 dihydro 9 10 diketo phenyl hydrazone 947
- Quinolone 2 an liso 3 benzamido 6 7 methylendioxy 3442¹
- C₂₂H₁₈N₂O₂ Cinnamamide α bentamido 3 4 methylendioxy 6 ntro 3342²
- C₂₂H₁₈N₂O 2 9 Pyridindole 3 4 dihydro 1 phenyl picrate 301
- C₂₂H₁₈Br₂NO₂ Anthraquinone 1 [N (β bromoethyl) p tolylsulfonamido] 947¹
- C₂₂H₁₈Br₂NO₂ Benzenesulfonotoluene 5 bromo 6 hydroxy 2 naphthalene sulfonate 5408¹
- 2 Naphthalenesulfono m toluide, 5 bromo 6 hydroxy benzenesulfonate 5408¹
- C₂₂H₁₈Br₂N₂O₂ Spiro[pyrazole 3(2) 9 xanthene] 3,6 diol 1 5 dimethyl 2 phenyl dibromo deriv 3644¹
- C₂₂H₁₈NO Anthra[1 10 β]pyrrol 6 oxy 1 2-dihydro-2 xyl 5420¹
- C₂₂H₁₈N₂ 2 Pseudoindolenitrile 3 3 dibenzyl 5425¹
- Quinoxaline deriv m 131 2², of quinone from methylpmanthrene 2136¹
- C₂₂H₁₈N₂O₂ Naphthol, phenylhydrazino- benzoate 5152¹
- 3 5 Pyrazolodione 4 (α methylbenzal) 1,2 diphenyl, 2145¹
- C₂₂H₁₈N₂O₂ 1 5 Pentanedione 1 5 bis(8 hydroxy 5 quinoly) and HCl, 2727¹
- C₂₂H₁₈O Carbamol 1 naphthylidiphenyl, 99¹
- Ketone, dimethylnaphthyl naphthyl, 2716²
- 2 methyl 1 naphthyl 4 methyl 1 naphthyl, 2716²

- C₂₀H₁₃O₂S 1 Thionaphtheneacetic acid, α = 1, then 1 Me ester 2143⁹
- C₂₀H₁₃O₂S Malonic acid α = diphenylthiol th no 1 Me ester, anhydride with H₂ 34 4214¹
- C₂₀H₁₃O₂S 1,4-maleic acid, 4 propenyl, dibenzotric 409⁹
- C₂₀H₁₃O₂S Naphthol, 1 12 methoxy 1 naphthylsulfonol 1, acetate, 5671¹
- C₂₀H₁₃O₂S Dequalone dehydro 938¹
- C₂₀H₁₃O₂S 2 Thionaphtheneacetic acid 1 1 carbonyls 5-ethoxy, 5167¹
- C₂₀H₁₃O₂S Anthracene, benzylbromo 9 10 dihydrodimethyl, 2995¹, 4547¹
- C₂₀H₁₃O₂S Anthracene 9 benzyl 10 bromo 2 3 dimethyl, 3646
- 10 α bromobenzyl 1 3 dimethyl 1 4547¹
- C₂₀H₁₃O₂S BrNO 2(1) Naphthaleneone, 1 4 dianthone 6 bromo 1 methyl 946¹
- C₂₀H₁₃O₂S BrNO Cyclopentanone 2 2 diamino - 4 4 dibromo 3 phenylmimo, 2129¹
- C₂₀H₁₃O₂S N 5 5 Benzothio- β cyanuric oxide 1 2 d methyl 4270¹
- C₂₀H₁₃O₂S Dehydrodicarboxylic acid 3649¹
- C₂₀H₁₃O₂S Pyrrole diphenyl 1 p-tolyl, 3994¹ 3995¹
- C₂₀H₁₃O₂S Benzocarbazole 11 benzoyl - 5 6 5a 11a tetrahydro 5675¹
- 2 Quinol acetanilide α diphenyl 1829¹
- C₂₀H₁₃O₂S Fluoranthene 1 2 3 10b tetrahydro-carbamate 5163¹
- 2 Pseudodolcarboxylic acid, 3 3 di benzyl 5425¹
- C₂₀H₁₃O₂S Benzopyran, ethoxy - 6 niso 2 3 diphenyl, 4583
- 1,2 4 - Butanetrione, 1 β anisyl 3,4 d phenyl 4-oxime 108¹
- Δ^1 Isoxazoline α anisyl 3,4 diphenyl 2-oxide, 103¹
- Ketone β anisyl 14 5 dihydro 5 hydroxy 3 4 d phenyl 5 isoxazolyl 103¹
- C₂₀H₁₃O₂S Tyrosine 1 benzoyl benzate, 1514¹
- C₂₀H₁₃O₂S Anthraquinone, 1 4 - d methoxy 5 β tolylsulfonamide, 3648¹
- C₂₀H₁₃O₂S Quinolone, 3 benzamide 2 o(m and p) tolyl no, 3342¹
- C₂₀H₁₃O₂S Quinolone, α benzamido-o-sulfo, 3342¹
- 1,5 Pentanedione, 1,5 bis(8 hydroxy 5 quinoxalyl), oxime 2727¹
- C₂₀H₁₃O₂S 1,1-anthracene methyl, picrate, 2136¹
- C₂₀H₁₃O₂S Anthracene, benzylmethyl, 2995¹, 3646¹, 4546¹
- Anthracene 9 10 dihydro 1,4 dimethyl 9 methylene 10 phenyl 2995¹
- , trimethylphenyl 3646, 4547¹
- C₂₀H₁₃O₂S Butyrylphenone α bromo β methoxy γ niso- β γ -diphenyl, 103¹
- C₂₀H₁₃O₂S 2,1-Protonaphthone, α β dibromo δ (3,4 dimethoxyphenyl) 1 hydroxy acetate 4 6¹
- C₂₀H₁₃O₂S Camphor m 124 5¹, from compound m 64¹ 1272¹
- C₂₀H₁₃O₂S ClO₂ Butyric acid α γ bis(p chlorophenyl) β hydroxy 5 tolyl, 2946¹
- C₂₀H₁₃O₂S 2 - Pseudodolcarboxylic acid, 3 3 - d benzyl oxime 5425¹
- 2 - Pyrrolidone, 5 hydroxy 1,2 3 triphenyl, 3725¹
- C₂₀H₁₃O₂S Spiro[pyrazole 3(2),9'] xanthene 3,6 - diol, 1,5 - dimethyl 2 phenyl, 3644¹
- Urea 1 bis(2 hydroxy - 1 naphthyl methyl) P 1261¹, 5400¹
- C₂₀H₁₃O₂S Indanacetic acid, 2,3 diketone, phenylisoxane, 5162¹
- C₂₀H₁₃O₂S Benzocarbazole, 8,9,10,11 - tetrahydro 8 methyl, picrate, 1533¹
- C₂₀H₁₃O₂S Compd, m 212¹ from compd m 208¹ and BrH 5123¹
- C₂₀H₁₃O₂S Ether, 2 3 dimethyl - 10 phenyl 9 - anthryl methyl 3646¹
- C₂₀H₁₃O₂S 2 - Butenone, 4 α anisyl 1 3 diphenyl, 4582
- Propene 1 β anisyl 3 - methoxy 3 3 diphenyl, 4533¹
- C₂₀H₁₃O₂S Dehydrodequalone 938¹ 2987¹
- Dehydrodequalone 1510¹
- C₂₀H₁₃O₂S Dehydrodicarboxylic acid 3649¹
- C₂₀H₁₃O₂S Oxidizeddequalone 3650¹
- C₂₀H₁₃O₂S Chromanone, 7,8 dihydroxy - 3 vanillal, triacetate, 1534¹
- C₂₀H₁₃O₂S Benzeneacetic acid, β (6 methoxy 2 methyl 4 quinoxalino) phenyl, 704¹
- C₂₀H₁₃O₂S Propiophenone β (bromophenyl) α dimethylamino, picrate, 911¹
- C₂₀H₁₃O₂S Acetophenone, α dimethylamino - α fluoryl, 91¹
- Anthrone 10 (β dimethylaminophenyl) 7 and 3) methyl, 4546¹
- 1 4 dimethyl 10 V - methylanilino, 2995¹
- 2 Propan 1 of 1 - (β - dimethylaminophenyl) 1,3 d phenyl 1515¹
- C₂₀H₁₃O₂S Benzamide, β - hydroxy V - isopropyl benzate, 2984¹
- C₂₀H₁₃O₂S 3 - 5 Isoxazolinocarbonyl α β anisyl 3,4 diphenyl 2 oxide 105¹
- C₂₀H₁₃O₂S Acetylphenone β (mimo- α phenyl, compd with phenethylamine, 1249¹
- C₂₀H₁₃O₂S Pyruvic acid diphenyl, Et ester, phenylhydrazine 945¹
- C₂₀H₁₃O₂S Benzene acid β 2 5 - cresyl α - phenylhydrazide, ethylestimate 5151¹
- C₂₀H₁₃O₂S Butyric acid β hydroxy - α γ di phenyl β tolyl 2566¹
- Ethylene, 1 1 - diphenyl 3 (2,4,5 tri methoxyphenyl) 4569¹
- Isovaleric acid, β hydroxy- α γ γ' triphenyl, 2987¹
- Lactic acid, α β triphenyl Et ester 947¹
- C₂₀H₁₃O₂S (See also Isoxazolinone Ketonone) Dequalone 938¹ 1509¹, 3650¹, 5423¹
- Dehydrodequalone, dihydro 3650¹
- Dehydro- β -d-hydroxotrone 1251¹, 3650¹
- Dehydrodicarboxylic acid, 3650¹
- C₂₀H₁₃O₂S Compd m 84¹, from kinks oil 1272¹
- Dehydrodihydrodicarboxylic acid 3649¹
- Tephrosin 1252¹ 1509¹
- Toscarol 16.7¹ 3649¹
- C₂₀H₁₃O₂S Tephrosinacetic acid α 1 1 -
- C₂₀H₁₃O₂S Propiophenone, α d methylamino β d phenyl, 91¹
- C₂₀H₁₃O₂S Acetic acid (β 1 methylamino phenyl) di phenyl, Me ester 1275
- 2 8 Xylene 4 ethyl α phenyl, carbonate 910
- C₂₀H₁₃O₂S Ethanol 1 2 di β anisyl 2 acetalamino- 1249¹

- C₂₃H₃₂N₂O₆ Dimicotinic acid, 1,2-dihydro-2,6-methyl-1,4-diphenyl, di Me ester, 3998¹
 Ethanol, 1,2-di-*p*-amyl 2-sulcylal amino, 1240²
 C₂₃H₃₂N₂O₆ Corycavine, 3662³
 Isorotenone, isochime, 3/97¹
 C₂₃H₃₂N₂O₆ Hydrastine, acid oxalate 2140⁴
 C₂₃H₃₂N₂O₆ Picrate, m 138-9°, of compd m 36-7°, 1232⁵
 C₂₃H₃₂N₂O₆ Styphnate, m 183-4°, of compd m 36-7°, 1232⁵
 C₂₃H₃₂N₂O Quinoline 2 furaltus [1,2,3,4-tetrahydro-, 2992⁶
 C₂₃H₃₂N₂O₆ Hydrastine acetamido- 2149⁴
 C₂₃H₃₂N₂O₆ Phenethylamine *N* benzyl 3,4-dimethoxy, picrate 3673⁷
 C₂₃H₃₂N₂O₆ N-phenylhydrazine trimethoxy picrate, 12-6⁸
 C₂₃H₃₂O₆ Benzene, (γ phenoxy α β phenoxy ethyl)propyl 1832⁹
 C₂₃H₃₂O₆Pb Tri *p*-tolyllead acetate 5406⁹
 C₂₃H₃₂O₆ Ethanol, 1,1 diphenyl 2,2,4,5-trimethoxyphenyl 4869⁹
 C₂₃H₃₂O₆ Desoxyisorotenone 5423⁷
 C₂₃H₃₂O₆ Dehydrodihydrodrorotenol, 3650¹ 5423⁴
 Rutenone acid 5423⁴
 Rotenol 104¹
 Rutenone, dihydro- 745¹ 1251 5423¹
 C₂₃H₃₂O₆ Rutenolone β dihydro 1251¹
 Toxicarol dihydro 3649⁴
 C₂₃H₃₂O₆ Deguelic acid 938¹
 Derric acid 1510¹ 3339¹
 Rotenon c acid, dihydroxy 104¹
 —, isodihydroxy 104¹
 C₂₃H₃₂ClN₂O₆ Malacate green, perchlorate 1513¹
 C₂₃H₃₂NO 1-Naphthalenecarbinol α phenyl α (1 piperidylmethyl) 4276¹
 C₂₃H₃₂NO₂ 2-Naphthol 1 (β methoxy α 1 piperidylbenzyl) 2715¹
 C₂₃H₃₂NO₂ 1,2-Butanediol 4 amino 1 *p*-amyl 3,4-d-phenyl 104¹
 C₂₃H₃₂NO₂ Di *p*-toluenesulfonamide *N* (γ phenylpropyl) 2709¹
 C₂₃H₃₂NO₂ Derric acid oxime 1510
 C₂₃H₃₂N₂O₆ Hydrastine, hydrazine acid oxalate 2149⁴
 C₂₃H₃₂N₂O₆ Cinchophen 6 methoxy β diethylaminoethyl ester 4883¹
 Neobisubirubic acid, benzylidene 1877⁴
 C₂₃H₃₂N₂O₆ (See also Brucine)
 Amino acid from the di Ac deriv of tetrahydrostrychnine 2432¹
 C₂₃H₃₂N₂O Urea 3 bis(γ 3 indylpropyl) 514¹
 C₂₃H₃₂N₂O₆ Azo dye from the Me ester of neorantholubric acid *HCl* 1837¹
 C₂₃H₃₂N₂O₆ Methopicate m 153-4° of ketone from Me lupinate and PhMgBr 4005¹
 Picrate m 120-1°, of base b 143-5° 4005¹
 C₂₃H₃₂N₂O₆ Veratraldehyde 2 (5 formyl 2 methoxy 4 vinylphenoxy) 6 vinyl disemcarbazono 2983¹
 C₂₃H₃₂O₆ Desoxyisorotenol, 3650¹
 C₂₃H₃₂O₆ Dehydrodihydrodrorotenone acid, 3650¹
 Desoxytoxicarol, dihydro- 3649⁴
 Rutenone acid, dihydro- 5423⁴
 C₂₃H₃₂O₆ Deguelic acid, dihydro- 3650¹
 Dehydrodihydroxy β dihydrorutenone acid 1251¹
 C₂₃H₃₂O₆S Glucofuranone 5 *p*-toluenesulfonyl 6 benzoylacetone-, 2120⁴
- C₂₃H₃₂ClN₂O₆ 1,3,3-Trimethyl-2-(1,3,3-trimethyl 2,3-indylidenemethyl)-pseudonidobum perchlorate 2427¹
 C₂₃H₃₂NO₂ Naphthol 1 (α dipropylanone) 2715¹
 C₂₃H₃₂NO₆ Morphine dipropionyl and *HCl* 3004¹
 C₂₃H₃₂NO₆ Hydrastine *N* hydroxy 1,1-deriv and *HCl* 4274¹
 C₂₃H₃₂NO₆ Hydrastine *N* hydroxy 1,1-deriv sulfamic acid 4-75¹
 C₂₃H₃₂N₂O₆ 1,3,3-trimethyl 2,3-indylidenemethyl-2-enzoylalaninyl 2974¹
 C₂₃H₃₂NO₆ 1,3,3-trimethyl 2,3-indylidenemethyl-pseudonidobum hydroxide 2427¹
 C₂₃H₃₂N₂O₆ Brucine 4002¹
 1,1-Cyclotetradecanediol oxamide 3 amoxy 170¹
N-1,1-rubic acid 1-ethyl 1873¹
 Strychnine tetrahydro Ac deriv and its perchlorate 2432¹
 C₂₃H₃₂N₂O₆ Brucine dihydro- 110¹
 Equamine 18-9¹
 C₂₃H₃₂N₂O₆ Butanesulfonic acid 4 hydroxy 3 keto 2 methyl phenylsazone PhNHNH₂ salt 277¹
 C₂₃H₃₂NO₆ 3-Phenylhydrazine salt of osazone of compd from 2 methyl 2,3-butadiene sulfone 277¹
 C₂₃H₃₂O₆ Naphthalene acid menthyl methyl ester 2715¹ 7845¹
 C₂₃H₃₂O₆ See Dactylin
 C₂₃H₃₂NO₆ Glucosyl 6 amine acetone di *p*-toluenesulfonyl 2121¹
 C₂₃H₃₂O₆F Methyl phosphine acid triphenyl compd with LiOH 3618¹
 C₂₃H₃₂NO₆ Quinolizone 4 carbanol octahydro α α d phenyl methoxide 4005¹
 C₂₃H₃₂N₂O₆ Urea α cyclohexyl β phenyl α (γ phenylisobutyl) 1810¹
 C₂₃H₃₂N₂O₆ Diacetyl deriv m 2°-0° of compd 16, 210 2°, 5429¹
 C₂₃H₃₂N₂O₆ Brucine dihydro- 4275¹
 C₂₃H₃₂NO₆ Brucine dihydro-hydrate and *HCl* 110¹
 C₂₃H₃₂N₂O₆ Compd m 171° from α amyrin and HNO₃ 2989¹
 Galactose pentacetate methylphenylhydrazine 5402¹
 C₂₃H₃₂NO₆ Veratraldehyde 6 ethyl 2 (4 ethyl 5 formyl 2 methoxyphenoxy) diacetyl azone 2984¹
 C₂₃H₃₂O₆ Anhydride β (azodihydrodioxigenone), 4889
 C₂₃H₃₂O₆ Isodioxigenone oxo 4889¹
 C₂₃H₃₂O₆ Lactone m 235-6° from undeplagon diacid Me ester 5173¹
 Pyropseudocholodanic acid 1535¹
 C₂₃H₃₂ClN₂O₆ 1,3-Propanediamine 2 chloro *N* *N* *N* tetraethyl, dipicrate 549¹
 C₂₃H₃₂NO 1-Piperid acetanil, α phenyl α (4 phenylbutyl) *HCl* 4276¹
 C₂₃H₃₂BrN₂O₆ Dauric acid, ethyl, ethobromide and chloroplatinate, 969¹
 C₂₃H₃₂N₂O₆ 4-Isopyrrolepropionic acid 2 (4 *β* carboxyethyl) 3 methyl 5 (methylisopropylmethyl) 2 *p*-pyrrol methylene-3-methyl 5-methyl mercaptomethyl-3, di Me ester, *HBr* 3330¹
 C₂₃H₃₂N₂O₆ 4-Isopyrrolepropionic acid, 2-

- 14 β carboxyethyl) 5 (methoxy methyl) 3 methyl 2 pyrrylmethylene] 5 (methoxy methyl) 3 methyl, di Me ester and HBr 3338¹
- C₂₁H₂₅N₃O₆ Compd m 165-6°, from α am)rn and H₂O: 2989²
- C₂₁H₂₅N₃O₆ 2 Propanol 1.3 bis(diethyl amino) dipicrate 5393³
- C₂₁H₂₅O₄ Ashdrogougenin, 708¹
- C₂₁H₂₅O₄ Desoxyisopropogonic acid 3173¹
- Digitoxigenone oxodihydro- 4889¹
- Isodigitoxigenone acid 5173¹
- C₂₁H₂₅O₄ Acid m 246°, from dihydrodigitoxigenin 4889¹
- Pyrocholanone acid 3661¹
- Trophanthidin 4888¹
- C₂₁H₂₅O₄ Daodephanthoidic acid, di Me ester 5173¹
- α -Isotrophanthidic acid 4888¹
- Undeclodecenoic acid Me ester 5173¹
- C₂₁H₂₅N₃O₆ Sannomenerosemethine methyl methyl methosulfate 4551¹
- Sannomenerosemethine methyl methyl methosulfate 4551¹
- C₂₁H₂₅N₃O₆ 2 Pyrocholanone acid 5.5 methylenebis[methylpropyl] di Et ester 3000 3010¹
- C₂₁H₂₅O₄ Pyrocholanone acid 3661¹
- C₂₁H₂₅O₄ (See also *Gitoxigenin*)
- Digitoxigenin 708¹
- Isodigitoxigenin 708¹
- Lanadigitoxigenin 377¹
- Penicillin 4888¹
- C₂₁H₂₅O₄ Desoxy α isotrophanthidic acid, 4888¹
- Isopropogonic acid 4888¹
- C₂₁H₂₅O₄ Tric acid m 258° 5173¹
- C₂₁H₂₅N₃ Isopropyl, 5 methyl 2 (5 methyl) 3.4 dipropyl 3 pyrrylmethylene] 3.4 dipropyl, HBr 3010¹
- C₂₁H₂₅N₃O₆ 3 Glycine *p*-resoldisulfonylbenzyl, 491¹
- C₂₁H₂₅O₄ Me ester of acid contg 4 C ring, 914¹
- C₂₁H₂₅O₄ Digitoxigenin dihydro- 708¹
- Gitoxigenone, dihydro- 4889¹
- ketodicarboxylic acid, m 203.5° from diketocobanic acid, 3661¹
- C₂₁H₂₅O₄ Isodigitoxigenic acid, 708¹
- C₂₁H₂₅NO 3 Butylethylmethylphenylammonium camphorsulfonate 3324¹
- C₂₁H₂₅O₄ Cresol 4 dodecyl - 6 ethyl acetate 929¹
- C₂₁H₂₅ClN₃Pt₃Cl₄ 4194¹
- C₂₁H₂₅NO₄ Benzoate, 1 (and 4) (cetyl) 4 (and 1) methoxy 2 nitro, 2127¹
- C₂₁H₂₅O₄ Benzene, 1 (cetyl) 4-methoxy, 2127¹
- C₂₁H₂₅O₄ Furancarbinol, tetrahydro-, kinate, P 3664¹
- C₂₁H₂₅NO 3 Benzenesulfonamide, γ hepta decyl, 497¹
- C₂₁H₂₅IP₃ Methylidiodiethylphenylphosphonium iodide, 5662¹
- C₂₁H₂₅O₄ Furancarbinol, tetrahydro-, oleate, P 3664¹
- C₂₁H₂₅O₄ Furancarbinol, tetrahydro-, stearate, P 3664¹
- C₂₁H₂₅O₄ 1,21 Heneicosanedicarboxylic acid, 490¹
- Malon acid, cetyl di Et ester 5392¹
- Phellogenic acid, di Me ester, 4832¹
- C₂₁H₂₅NO₄ Adipic acid, γ heptadecyl, and Ba salt, 497¹
- C₂₁H₂₅NO₄ Glucosonic acid, heptadecylamide salt, 497¹
- C₂₁H₂₅ClN₃Pt₃Cl₄ 4194¹
- C₂₁H₂₅N₃O₆ Dibenzoyl, α pyrenedimide, 6, 12 dihydro-6,12-diketone P 1094¹
- C₂₁H₂₅Br₂O₄ [3,7] Baccenaphthene - 8.8 - dione, dibromo-, 1515¹
- C₂₁H₂₅O₄ 3.2 α Anthrathione - 1,6,11 (2) - trione, 2 (2 - keto 1(2) thionaphthenehydene), 2723¹
- C₂₁H₂₅O₄ Naphthalene anhydride, 2,2-sulfonyl, 5419¹
- C₂₁H₂₅BrN₃ Acenaphthaphenazine, 3 bromo-, 2713¹
- C₂₁H₂₅Br₂O₄ Spiro[benzoanthene 12-1'(2) - isobenzofuran] 2' - one, 6,8,10 tetrabromo-5,9-dihydroxy, 5415¹
- C₂₁H₂₅ClN₃ Acenaphthaphenazine, 3 chloro-, 2713¹
- C₂₁H₂₅NO₄ 3.2 α Anthrathione 1.6, 11(2) - trione, 2 (3 - keto 2(3) - indolene), 2723¹
- C₂₁H₂₅Br₂O₄ Spiro[benzoanthenebenzofuran] one dibromohydroxy 5414¹
- C₂₁H₂₅Br₂O₄ 1,3 Naphthalenediol, 2,4,6,8 - tetrabromo-, dibenzoate, 512¹
- C₂₁H₂₅O₄ 3, Δ^1 Binaphthothione, 5292¹
- C₂₁H₂₅Br₂O₄ 1.5 Naphthalenediol, 2,4,6 tri bromo-, dibenzoate, 512¹
- C₂₁H₂₅ClO₄ 7 meso Benzanthreneone, 4 - *p* - chlorobenzoyl P 4557¹
- C₂₁H₂₅Br₂O₄ 1,5 Naphthalenediol, 2,6 di bromo- dibenzoate, 512¹
- C₂₁H₂₅ClO₄ Naphthalene, 1,4 bis(*p* chlorobenzoyl) P 1684¹
- Perylene bis(chloroacetyl), 292¹
- C₂₁H₂₅NO₄ See *Indopurine*
- C₂₁H₂₅NO₄ Perylene, 3,9-diacetyl dimetro-, 292¹
- C₂₁H₂₅O₄ 7 meso Benzanthreneone, 4 benzoyl, P 4557¹
- C₂₁H₂₅O₄ 3,1,8 Benzodi 1,4 thiopyran 4.6 dione 2.8 dihydroxy, 1526¹
- C₂₁H₂₅O₄ Spiro[benzoanthene - isobenzofuran] one dihydroxy 5414¹, 5415¹
- C₂₁H₂₅ClO₄ Naphthalene 1 benzoyl 4 *p* chlorobenzoyl P 1684¹
- C₂₁H₂₅N₃O₆ Anthranquinone, 1 - acetylamo - 2 (2,4-dimethoxy), 947¹
- C₂₁H₂₅ Phenanthracenaphthene, 2717¹
- C₂₁H₂₅NO₄ Phenanthrene, 8,8 - oxybis-, 1831¹
- C₂₁H₂₅Br₂HgS₂ 1 - Acenaphthyl mercaptan, 3 bromo-, Hg deriv, 5419¹
- C₂₁H₂₅Br₂FbS₂ 1 - Acenaphthyl mercaptan, 3 bromo-, Fb deriv, 5419¹
- C₂₁H₂₅Br₂S₂ Dithiobis, bis(3 bromo - 1 - acenaphthyl), 5419¹, 5420¹
- C₂₁H₂₅ClN₃ Compd, m 192°, from 4 - amino - 3 chloro - 2 quinolineacetone trile and BaH₂, 2430¹
- C₂₁H₂₅ClN₃O₄ *p*, *p*'' Dibenzene-sulfon amide, 4,4 - dichloro 2,2' dimetro 2894¹
- C₂₁H₂₅Br₂O₄ Benzene, 1 (*p* nitrophenoxyl) 4 (*p* nitrophenoxyl) 1816¹
- C₂₁H₂₅NO₄ Ellagic acid pyridine compd 2116¹
- C₂₁H₂₅NO₄ 3,1,3,8 Carbazotetra-sulfone acid 8.8 dithio- *p* 962¹
- C₂₁H₂₅NO₄ Fluoran, 1,3,6,8 tetramethyl 2,4,5,7 tetranitro- 5416¹
- C₂₁H₂₅O₄ Naphthalene, dibenzoyl, 943¹, 1513¹, P 1684¹
- C₂₁H₂₅O₄ Compd, m 247°, from compd m 198° and FbHgBr 5418¹

- C₂₁H₁₃BrN₂ Acenaphthenequinone 3 bromo, 1-(phenylhydrazono), 1515³
- C₂₁H₁₃ClO Ketone, 4-*p*-chlorobenzyl 1-naphthylphenyl, P 1684³
- C₂₁H₁₃NO₂ Ketone 4-benzyl-8-nitro 1-naphthylphenyl, 1515³
- C₂₁H₁₃NO₂ β-Naphthoxazole, 2-(*p*-benzylaminophenylamino) 1,2-dihydro-, 2423³
- C₂₁H₁₃N₂O₃ 1-Naphthol 3-sulfonic acid 2-[*p*-(5-methyl 1-benzothiazolyl)phenylazo], 1722³
- C₂₁H₁₃ Etbenzene, 1,3,5-triphenyl, 2713³
- Benzerythrene, 4252³
- Biphenyl, diphenyl 4252³
- α-Dibenzanthracene, 7,14-dimethyl, 2716³
- Dibenzo[*fg*]benanthrene, 2,11-dimethyl, 3900³
- C₂₁H₁₃AsN₂ 2(1) 2(1) Benzarsazete 1,1-diphenyl 108³
- 1(6,6) Phenarsazine, 110³
- C₂₁H₁₃AsN₂O 1benarsazine 1,1-oxylus[1,6]-hydro 1831³
- C₂₁H₁₃AsN₂O₃ Phenarsazene 1,6-dihydro 1-hydroxy sulfate 109³
- C₂₁H₁₃Br₂O₃ Quinone 2,6-dibromo 3,6-bis(4,6-dibromo 2-mesityl) 940³
- C₂₁H₁₃CuN₂O₃ + H₂O Dipyrindinocupric o-nitrobenzoate hydrate 682³
- C₂₁H₁₃N₂O Acenaphthene 3,3-azoxylus 3980³
- 3-Acenaphthol 2-(3-acenaphthenylazo) 3088³
- 1-Naphthaldehyde, 6-(*o*-formylphenyl)phenylhydrazono 4900³
- C₂₁H₁₃N₂O₂ Naphthalene dibenzoyl dioxide, 1515³
- Oxamide, V naphthyl *N,N*-diphenyl 293³
- 3-*o*-Pyrazolone 4-conamal 1,2-diphenyl 2145³
- C₂₁H₁₃N₂O₂ 5(4) Imidazolone 2-phenyl 4-piperonylidene 1-*m*(and *p*)-tolyl 3342³
- 8-Quinolol 7-benzamido 5-methylbenzoate 934³
- C₂₁H₁₃N₂O₃ Acetic acid [2-(2-hydroxy 1-naphthylazo) 5-phenylphenylmercapto] 2900³
- C₂₁H₁₃N₂O₃ [2,3-Bis(2-pyrroline) 4,4-dione 1,1-diacyl] 2,2-diphenyl 1827³
- D-pyrrolo[1,2-*a*] 1,2-*β*-pyrazine 5,10-diol 5,10-dihydro dibenzoate 2997³
- Naphthalenedicarboxanilide *α,α'*-di-hydroxy P 2003³
- C₂₁H₁₃N₂O₃ Fluoran tetramethyldinitro-, 5415³ 5416³
- C₂₁H₁₃N₂S₂ Azobenzene *p,p*-bis(phenylmercapto) 2127³
- C₂₁H₁₃N₂O₃ Phenol, *p,p*-(*p*-biphenylene di-azo)bus 1505³
- C₂₁H₁₃O₃ 3-Acenaphthenyl ether 3983³
- Ketone, 3-acenaphthenyl 2-methyl 1-naphthyl, 2717³
- , benzyl 1-naphthyl phenyl, 1515³ P 1684³
- C₂₁H₁₃O₃ Biphenyl, *p,p*-diphenoxy 4253³
- C₂₁H₁₃O₃ 1-Acenaphthyl sulfone 5410³
- C₂₁H₁₃O₃S₂ 1,9-Benzodi 1,4-thiopyran 4,6-dione, 2,3,7,8-tetrahydro 2,8-di-phenyl, 1526³
- Disulfide bis(*p*-phenoxyphenyl), 1816³
- C₂₁H₁₃O₃ *o*-Benzeno[5,10]anthracene 1,4-diol, 5,10-dihydro, diacetate, 5160³
- C₂₁H₁₃O₃S₂ Cinnamic acid (*m*-phenylene dithio)is 1527³
- 2-Naphthol, 1,1-dithio *s*-diacetate 2350³
- C₂₁H₁₃O₃ 2-Naphthol acid 4,4-ethylenebis(hydroxy) 5400³
- C₂₁H₁₃S₂ 1-Acenaphthyl disulfide, 5410³
- Disulfide bis(*o*-phenoxyphenyl), 200³
- C₂₁H₁₃Cl₂FeNO₂ Ketone chlorophenyl 2-ethyl 2,5-dihydro 5-hydroxy 3,4-diphenyl 5-isoxazolyl FeCl₂ deriv 534³
- C₂₁H₁₃NO Ketone benzyl 1-naphthyl phenyl oxime, 1515³
- C₂₁H₁₃NO₂ Benzole(cyclopent[*β*]indole 5-acyl 7-benzoyl 7,8,9,10-tetrahydro- 1522³
- C₂₁H₁₃NO₂ Oxamic acid *N,N*-di-2-naphthyl ester 291³
- C₂₁H₁₃NO₂ See *Isocin*
- C₂₁H₁₃NO₂ Lithanol 1,2-bis(3,4-methylene dioxaphenyl) 2-piperonyldeneamino, 1240³
- C₂₁H₁₃N₂O₂ Cinchophen 6-methoxy, benzaldehyde 4851³
- C₂₁H₁₃N₂O₂ Quinolone 3-benzamido 6,7-methylenedioxy 2-*o*(and *p*)-toluene, 3342³ 3343³
- C₂₁H₁₃N₂O₂ Cinnamotoluene *α*-benzamido 3,4-methylenedioxy 6-nitro 3342³
- C₂₁H₁₃N₂O₂ 1,2,5-Triazole 3,4-dicarboxylic acid 1-phenyl bis(benzaldehyde) 1828³
- C₂₁H₁₃ *α,α'*-Dibenzanthracene 7,14-dihydro 7,14-dimethyl 2716³
- Naphthalene 1,4-dibenzyl 1515³
- C₂₁H₁₃AsN₂O Diphenylamine, oxy compd of arsenic deriv 108³
- C₂₁H₁₃Br₂N₂O₂ Quinone 2,5-bis(3-bromo 2-mesityl) 3,6-dihydroxy di-Na deriv 3840³
- C₂₁H₁₃Br₂O₂ Quinone 2,5-dibromo 3,6-bis(4-bromo 2-mesityl) 940³
- C₂₁H₁₃Br₂O₂ Hydroquinone 2,5-dibromo 3,6-bis(4,6-dibromo 2-mesityl) 940³
- C₂₁H₁₃ClNO₂ Ketone, chlorophenyl 2-ethyl 2,5-dihydro 5-hydroxy 3,4-di-phenyl 5-isoxazolyl 514
- C₂₁H₁₃ClNO₂S Ketone chlorophenyl 2-ethyl 2,5-dihydro 5-hydroxy 3,4-di-phenyl 6-isoxazolyl acid sulfate 514³
- C₂₁H₁₃ClNO₂ Quinaldine *α*,4-diamino 3-chloro, Ac deriv, 2430³
- C₂₁H₁₃Cl₂N₂O Quinaldine 3,7-dichloro 4-*m*-chloroanilino *α,p*-phenetidine, 2430³
- C₂₁H₁₃FeN₂O₂ 3586³
- C₂₁H₁₃MoN₂O₂ 5839³
- C₂₁H₁₃N₂O Anthra[1,10-*β,γ*]pyrrol 6-oxyl 1,2-dihydro 1-methyl 2-xylyl 5420³
- C₂₁H₁₃N₂ Benzidine diphenyl, 48³ 5109³
- C₂₁H₁₃N₂O₂ Aniline, *p*-(*p*-(*p*-amino-phenoxy)phenoxy)phenoxy 1816³
- C₂₁H₁₃N₂O₂ Cinnamotoluene, *α*-benzamido 3,4-methylenedioxy 3342³
- Hydrazine, 3-bis(3-methoxy 2-naphthyl), 2138³
- C₂₁H₁₃N₂O₃ Cinchophen, methyltolylsulfon-amido, 699³

- $C_2H_5N_2S_2Zn$ Phenyl mercaptan, 2 ammo 5-phenyl Zn deriv 2999
 $C_2H_5N_2S_2Zn$ 4,4 Bipyridine compd with p p' toluidiamine 3426
 $C_2H_5N_2S_2Zn$ Quinazoline 2,4 bis(o carboxy anilino) di Me ester HCl 5509
 $C_2H_5N_2S_2Zn$ Compd m 246* from compd m 208* and phenylglyoxal 3425
 $C_2H_5N_2S_2Zn$ Ketone 2,7 dimethyl 1 naphthyl 4 methyl 1 naphthyl 2716
 $C_2H_5N_2S_2Zn$ Anthrol, dimethylphenyl, acetate 3649, 4547
 $C_2H_5N_2S_2Zn$ 7,14 D benzanthracediol 7,14 dihydro 7,14 dimethyl 2716
 $C_2H_5N_2S_2Zn$ Fluoran tetramethyl 5415
 $C_2H_5N_2S_2Zn$ 1 Naphthalenesulfonic acid 5,8 dibenzyl Na salt 1513
 $C_2H_5N_2S_2Zn$ Thionaphtheneacet acid α and β anisyl and Ba salt 2144
 $C_2H_5N_2S_2Zn$ Glycerol tris(p hydroxy benzoate) 3636
 $C_2H_5N_2S_2Zn$ Chromanone 3 (3,4 dihydroxy benzal) 7,8 dihydroxy tetraacetate 1534
 $C_2H_5N_2S_2Zn$ Cyphoric acid 2134
 $C_2H_5N_2S_2Zn$ Caprarinic acid 2881
 $C_2H_5N_2S_2Zn$ Butyline tetraphenyl 1827
 $C_2H_5N_2S_2Zn$ Silicane tetraphenyl 1485 5830
 $C_2H_5N_2S_2Zn$ Silicane tetraphenyl, 5830
 $C_2H_5N_2S_2Zn$ AzN,O Benzeneacetic acid p p' (2,4 dihydroxy 5 phenyl)triazole 974 4937
 $C_2H_5N_2S_2Zn$ IN,S 5,6 Benzothio & cyanine iodide 2 methyl 1 ethyl 4270
 $C_2H_5N_2S_2Zn$ MoN,S 3,58
 $C_2H_5N_2S_2Zn$ H N Fluorene 9 (p dimethylamino-cinnamal) 1235
 $C_2H_5N_2S_2Zn$ N,N Trizine 2,4,6 tri m(and p) tolyl P 5177
 $C_2H_5N_2S_2Zn$ Trundole 5164
 $C_2H_5N_2S_2Zn$ 1,3,5,7,9,11 Dodecaheptene 1,12 d phenyl 1719
 $C_2H_5N_2S_2Zn$ Br O 3 Pentanone 4 tenyl 1,2 dibromo 1,5 diphenyl 5424
 $C_2H_5N_2S_2Zn$ Br O Quinone, 2,5 bis(3 bromo 2 mes ty) 3,6 d hydroxy 3640
 $C_2H_5N_2S_2Zn$ Br,O Hydroquinone 2,5 diromo 3,6 b,4 bromo 2 mes ty) 940
 $C_2H_5N_2S_2Zn$ ClNO Hydrogen peroxide triphenyl methyl, compd with pyridine HCl, 3984
 $C_2H_5N_2S_2Zn$ ClO Rotenone compd with CCl, 4249
 $C_2H_5N_2S_2Zn$ IN,I Methylqu nolinum iodide compd with p, p' toluidiamine 5426
 $C_2H_5N_2S_2Zn$ O Compd m 293*, from neox antholurubic acid and phthalic anhydride, 1837
 $C_2H_5N_2S_2Zn$ N,4,4 Bipyridine, compd with p, p' thienediamine, 54,6
 $C_2H_5N_2S_2Zn$ Ior, h, n, tetramethyl, 4780
 $C_2H_5N_2S_2Zn$ H,N O Quinazoline, γ , γ -ethylacetis, 954
 $C_2H_5N_2S_2Zn$ H,N O S, p p' B benzenesulfonate lide 3,3' diamino, HCl 4871
 $C_2H_5N_2S_2Zn$ O Ither 10 benzal 9,10 dihydro-4 methyl 9 anthryl methyl, 2994, 4546
 $C_2H_5N_2S_2Zn$ Ither, α - 2,4 d methyl 9 anthryl benzyl methyl 4517
 $C_2H_5N_2S_2Zn$ 3,1 Ieutenone 4 - benzyl - 1,5 di phenyl 5424
 $C_2H_5N_2S_2Zn$ Itr, ac, 1 p - an syl 3 ethoxy 3,1 phenyl, 4533
 $C_2H_5N_2S_2Zn$ Phthalide 2,2 bis(4 - hydroxy 2,5-xylyl), 5415
 $C_2H_5N_2S_2Zn$ Xylenolphthalene 5416
 $C_2H_5N_2S_2Zn$ S Hydrocinnamic acid β , β' (m phenyl enedisulfonyl)bs, 1526
 $C_2H_5N_2S_2Zn$ O Hydroquinone, 2,5 di - p - toloxy, diacetate 4537
 $C_2H_5N_2S_2Zn$ O S Hydrocinnamic acid β , β' (m phenyl enedisulfonyl)bs, 1526
 $C_2H_5N_2S_2Zn$ O 4 - Chromanone 3 (3,4 dihydroxy benzyl) 7,8 dihydroxy, tetraacetate 1534
 $C_2H_5N_2S_2Zn$ A S N O, p Tolueneacetic acid, α [p (6 methoxy 2 methyl 4 quinolyl amino)phenyl], 1528
 $C_2H_5N_2S_2Zn$ Cl O Rotenone, compd with CHCl, 4249
 $C_2H_5N_2S_2Zn$ N Indoline 3,3 - dibenzyl 1 - methyl 2 methylene- 5424
 $C_2H_5N_2S_2Zn$ NO Anthrone, 10 - (p dimethylamino-phenyl)dimethyl, 2995, 3646, 4547
 $C_2H_5N_2S_2Zn$ NO Isoquinoline 6 benzyloxy 3,4 dihydro 1 (p - methoxybenzyl), and HCl 4502
 $C_2H_5N_2S_2Zn$ A S N O, 4 [a (p amino-phenyl) p toluene] 6 methoxy, 1528
 $C_2H_5N_2S_2Zn$ Naphthalene, 1,4 dibenzyl 1,2,3,4 tetrahydro- 1040
 $C_2H_5N_2S_2Zn$ Al,N O, 5862
 $C_2H_5N_2S_2Zn$ Br O 1,2,4,5 Benzenetetratol 3,6 - bis(3 bromo-2 mes ty), 3640
 $C_2H_5N_2S_2Zn$ IN 3,3 Dibenzyl - 1,3 dimethylpseudo-indolinum iodide 5424
 $C_2H_5N_2S_2Zn$ IN,1 Methylqu nolinum iodide, compd with p p' stilbene amine, 5426
 $C_2H_5N_2S_2Zn$ N O, 1,4 Butane hol 2 phenyl, di carbamate, 1832
 $C_2H_5N_2S_2Zn$ N O, Butyropheneone α dimethylamino β phenyl, picate, 91
 $C_2H_5N_2S_2Zn$ H N O, p Methoxybenzyl dimethylphen acylammonium picate, 91
 $C_2H_5N_2S_2Zn$ Propionophenone, β p anisyl α dimethyl amino, picate 91
 $C_2H_5N_2S_2Zn$ O 2 Butanone 3,3 dibenzyl 4 phenyl (7), 3664
 $C_2H_5N_2S_2Zn$ 3 Pentanone 2 benzyl 1,3 diphenyl, 3664, 5424
 $C_2H_5N_2S_2Zn$ O Acetylglucos deriv of alkanin, 4419
 $C_2H_5N_2S_2Zn$ Br,N O Compd m 214*, from glucosamine and p bromobiphenyl azide, 1804
 $C_2H_5N_2S_2Zn$ NO Morphine, benzyl, P 4339
 $C_2H_5N_2S_2Zn$ α Toluamide γ (m - benzyl)phen ethyl p methoxy, 4532
 $C_2H_5N_2S_2Zn$ I,NO Ethanol 2 anisalamine 1,2 di p an syl, 1240
 $C_2H_5N_2S_2Zn$ N,O Thetaneone benzenazo, 2147
 $C_2H_5N_2S_2Zn$ O S Benzenesulfonic acid, p p' - iminobis, aniline salt 1503
 $C_2H_5N_2S_2Zn$ Br NO Iodine, pentaacetyl 6-bromo, 1524
 $C_2H_5N_2S_2Zn$ Br NO, 2 - Indolecarboxylic acid 6-bromo 3-O tetraacetyl β glucosyl Me ester, 1524
 $C_2H_5N_2S_2Zn$ IN,1 Methylqu nolinum iodide compd with α - 1,3 p toluene 5426
 $C_2H_5N_2S_2Zn$ N,O Camphor 3 [p (1 amino)phenylamino], 91
 $C_2H_5N_2S_2Zn$ N O Zr 3,6
 $C_2H_5N_2S_2Zn$ N,O Mesoxalic acid di Me ester γ , γ' p phenyl enedisulfonyl methylhydrazine, 917
 $C_2H_5N_2S_2Zn$ N,O Isophthalaldehyde, b (4 o toluene semicarbazone) 3634

- C₂₁H₃₃O₇ Hydroquinone 2,5-dimethyl-, 910^a
 C₂₁H₃₃O₇ Compd., m 234^a, from simultaneous reduction and acetylation of 1,2,3,4-tetrahydro-6-hydroxyanthraquinone 3993^a
 C₂₁H₃₃O₈ Luteolinic acid O-tetramethyl Me ester 5430^a
 Genistin, trimethyl-, 5675^a
 Glucoside, β 2 naphthyl tetraacetate 1232^a
 C₂₁H₃₃O₈ Indin-, 3395^a
 C₂₁H₃₃N₃O₈ Hydrazine (isopropyl)dimethylhydrazine-, 2149^a
 C₂₁H₃₃O₈P F-thanol 2 phenoxy phosphate P 3667^a
 C₂₁H₃₃BrN₃O₈ Isopropyl 2 (3 bromo 4 methyl 3 propyl 2 pyrrolimethylene) 3,5 dimethyl 4 propyl picate 3009^a
 C₂₁H₃₃N₃O₈ 2 Indanmalonanide 3a,4,5,6,7^a hexahydro 3333^a
 C₂₁H₃₃O₈P 1337^a
 Isocortisin 3352^a
 C₂₁H₃₃O₈ Acebutin 1547^a
 C₂₁H₃₃BrN₃O₈ Isopropyl 2 (5 bromo 3 (β β dicarboxyethyl) 4 methyl 2 pyrrolimethylene) 4 (β β dicarboxyethyl) 3,5 dimethyl tetra Me ester HBr 301^a
 C₂₁H₃₃BrO₈ Dehydrocholic acid pentabromo- 2151^a
 C₂₁H₃₃N Cyclohexylamine 4 (β benzyl 4 phenyl 3 pentenyl) 1810^a
 C₂₁H₃₃N O₈ Glycine (2 naphthylmethyl glycidylglycidylglycidylglycidylglycidyl) 78^a
 C₂₁H₃₃P Pentaphosphine triphenylpropyl 2702^a
 C₂₁H₃₃BrO₈ Dehydrocholic acid tetrabromo- 2151^a 4279^a
 C₂₁H₃₃N O₈ 1,1 Cyclopentanediace to β toluene 3 methyl 4274^a
 C₂₁H₃₃N₃O₈ Compd from acetylation of first decomposition product of Witte peptone 4006^a
 C₂₁H₃₃N O₈ Succinic acid, α β diisole quinine salt 4222^a
 C₂₁H₃₃N₃O₈ Adio compd of PhOH and (CH₃)₂N₃ P 3778^a
 C₂₁H₃₃N₃O₈ [4,4 Bicyclohexylamine] dipicrate 2991^a
 C₂₁H₃₃O₈ Thecol triacetate 5458^a
 C₂₁H₃₃O₈ 1,2 Cyclohexanedicarboxylic anhydride 3 (carboxymethyl) 2,4 dimethyl anhydride 3638^a
 C₂₁H₃₃BrO₈ Dehydrocholic acid tribromo- 2151^a
 C₂₁H₃₃IN O₈ + H₂O, Brucine dihydro-methiodide, 1106^a
 C₂₁H₃₃O₈P 4 Homopyrocatechol orthophosphate ester with menthol 501^a
 C₂₁H₃₃BrO₈ Dehydrocholic acid, dibromo- 2151^a
 C₂₁H₃₃I O₈ Dehydrocholic acid diiodo-, 4278^a
 C₂₁H₃₃N O₈ Oxamide 5 A bis(trimethoxyphenethyl)-, 5405^a
 C₂₁H₃₃N₃O₈ Acridine 7 (β d ethylamino ethoxy) 5 - isomylamino 2 nitro, and di HCl P 1038^a
 C₂₁H₃₃N₃O₈ (γ D ethylaminopropenyl) d ethyl methyl ammonium picrate picrate, 5396^a
 C₂₁H₃₃O₈ Anhydro isopropiogenic acid, Me ester, 5173^a
 C₂₁H₃₃O₈ Cholic acid, hydroxyketone-, 2151^a
 Pyropseudocholoidamic acid mono Me ester 1535^a
 C₂₁H₃₃O₈ Diketolactonedicarboxylic acid m 258-60^a from 5 hydroxy 6 keto dicyclobutamic acid 1535^a
 C₂₁H₃₃O₈ Isotrophanthidic acid sulfate Me ester 4888^a
 C₂₁H₃₃O₈ Acetate of hexosan from insulin 4233^a
 Inosan hexaacetyl 1496^a
 Difuctose anhydride acetate 4233^a
 C₂₁H₃₃O₈ Tetragalacturonic acid 1989^a
 C₂₁H₃₃BrO₈ Dehydrocholic acid bromo 2151^a 4278^a
 C₂₁H₃₃BrO₈ Desoxybisanic acid bromo 1513^a
 C₂₁H₃₃BrO₈ Cholic acid tribromod keto 2151^a
 Dehydrodesoxycholic acid tribromo 1513^a
 C₂₁H₃₃ClN O₈ (β Cholan 7 dimethylamino propyl) diethylmethyl ammonium picrate picrate 5396^a
 C₂₁H₃₃ClO₈ Cholic acid chlorodiketo- 4554^a
 C₂₁H₃₃IN O₈ Brucine dihydro hydrate methiodide 1106^a
 C₂₁H₃₃O₈ Dehydrocholic acid iodo- 4278^a
 C₂₁H₃₃N Cyclohexylamine 4 (β benzyl 4 phenyl) and HCl 1810^a
 C₂₁H₃₃BrO₈ Cholic acid dibromo 712^a
 Dehydrodesoxycholic acid dibromo- 5431^a
 C₂₁H₃₃BrO₈ Desoxybisanic acid dibromo- 1535^a
 C₂₁H₃₃ClO₈ Cholic acid dichlorod keto 4554^a
 C₂₁H₃₃INO₈ Dauricineethylmethane α ethyl methiodide 960^a
 C₂₁H₃₃N O₈ See Eucupine
 C₂₁H₃₃N₃O₈ 1 Diethylamino β hydroxy propyl diethylmethyl ammonium picrate picrate 5395^a
 1,3 Iropanediamine N N N N tetra ethyl 2 methoxy dipicrate 5395^a
 2 Propanol 1 diethylamino 3 dimethyl amino 1 ethopicate 3 methopicate 5395^a
 C₂₁H₃₃O₈ Apocholoidenic acid 4007^a
 β Cholatrienic acid 4279^a
 C₂₁H₃₃O₈ Cholic acid, 3,7 diketone- 4007^a
 Dehydroapocholic acid 4007^a
 C₂₁H₃₃O₈ (See also Dehydrocholic acid) Cholic acid hydroxydiketo-, 5431^a
 Desoxyisopropiogenic acid Me ester 5173^a
 Isod g tonamic acid Me ester 5173^a
 C₂₁H₃₃O₈ Dehydrocholic acid hydroxy 2151^a
 Methyl ester, m 212°, of acid m 246° 4889^a
 C₂₁H₃₃O₈ Dehydrocholic acid dihydroxy 2151^a
 β Desoxybisanic acid 6 hydroxy lactone 3662^a
 C₂₁H₃₃O₈ Desoxybisanic acid 6-keto-, 1535^a 3662^a
 C₂₁H₃₃O₈ Isotrophanthidic acid sulfate Me ester, 4888^a
 C₂₁H₃₃O₈ Desoxybisanic acid, 5 hydroxy 6 keto- 1535^a
 C₂₁H₃₃O₈ Pseudocholoidamic acid 1535^a
 C₂₁H₃₃O₈ 2 Desoxycyclobutane, hexaacetyl 1221^a
 C₂₁H₃₃BrO₈ Cholic acid, bromo-6,7-diketo 3661^a
 Dehydroanthropodesoxycholic acid bromo- 3661^a
 Dehydrodesoxycholic acid, bromo-, 5431^a
 C₂₁H₃₃BrO₈ β Desoxybisanic acid 6 bromo 3662^a

- C₂₁H₄₃ClO₂ Cholemic acid chloroketo- 4530¹
 C₂₁H₄₃NO₂ Cholemic acid nitrodiketo- 3661¹
 C₂₁H₄₃NO₂ Bilanic acid ketolactam 3330³
 C₂₁H₄₃NO₂ Desoxybilanic acid 5-hydroxy 6-keto oxime 1539²
 C₂₁H₄₃NO₂ Cholic acid oxime 1257²
 C₂₁H₄₃N₂O α Isostrophanthidic acid semicarbazone 4883²
 C₂₁H₄₃N₂ Compd m 174° from reduction of β dimethylamino α isopropylbenzyl alcohol 1236¹
 Compd m 239-40° from reduction of β dimethylamino α isopropylbenzyl alcohol 1236¹
 C₂₁H₄₃N₂O₂ Cholemic acid 3 7-d keto- dioxime 4007²
 C₂₁H₄₃N₂O₂ Isobilanic acid dioxime 1257² oxime lactam 1257²
 C₂₁H₄₃N₂O₂ Acid decomp 276° from the ketolactam of bilanic acid 3336¹
 C₂₁H₄₃N₂O₂ Oxalates of bases from the acetoxy bromide of isochavibetol acetate 4538²
 C₂₁H₄₃N₂O₂ Tricyclohexylamine picrate 2713²
 C₂₁H₄₃N₂O₂ Cholemic acid dihydroxy 4007² 4279²
 Cholemic acid 6 -diketo- 3661¹
 Dehydrodesoxycholeic acid 2151 5431¹
 C₂₁H₄₃O₂ Acid m 203 5° from oxidation of diketocholeic acid 3661¹
 Cholemic acid hydroxydiketo- 3661¹
 C₂₁H₄₃O₂ Compd decamps 143° from sapogenin from *Camellia japonica* 4532²
 Desoxybilanic acid 1535² 3661¹
 Isostrophanthidic acid Me ester 4883²
 Ursodesoxybilanic acid, 3661¹
 C₂₁H₄₃O₂ β-Desoxybilanic acid 6 hydroxy, 3662²
 C₂₁H₄₃O₂ β Cholemic acid, 3662²
 C₂₁H₄₃O₂ Pentabasic acid m 180° from oxidation of 5 hydroxy 6 ketodesoxy bilanic acid 1533²
 C₂₁H₄₃BrO₂ Cholemic acid 6 bromo-7 keto- 3661¹
 C₂₁H₄₃NO₂ Cholemic acid 6 7-diketo- oxime 3661¹
 C₂₁H₄₃NO₂ Isodesoxybilanic acid oxime 1257²
 Oxime decamps 191°, of compd from sapogenin from *Camellia japonica*, 4553²
 C₂₁H₄₃N₂O₂ Ilexylamine N cyclohexyl β methyl picrolonate 1809²
 C₂₁H₄₃ Compd bp 205-10° from brown-coal tar oil 3463¹
 C₂₁H₄₃N₂O₂ Acid derived from bilanic acid, 5431¹
 Oximinoammonio acid decomp 228° from the ketolactam of bilanic acid 335²
 C₂₁H₄₃O₂ Apocholemic acid 4007²
 β Cholemic acid, 4279²
 Tetracosapentenonic acid 732²
 C₂₁H₄₃O₂ Lithocholic acid dehydro- 4554²
 C₂₁H₄₃O₂ Apocholic acid 4007², 4279²
 Cholemic acid, 6-hydroxy 7 keto- 3661¹
 Cholemic acid dihydroxy 4007²
 Isoxanthic acid di Et ester 1232²
 C₂₁H₄₃O₂ Apocholic acid oxido- 4007²
 C₂₁H₄₃O₂ Isobilanic acid, 3661¹
 Trimethyl ester m 62° of trisacric acid from duodephanthondiacid 5173²
 C₂₁H₄₃O₂ P 11 (disaccharofructose) 1 phosphoric acid and salt 5115²
 C₂₁H₄₃ Compd bp 228-34°, from brown-coal tar oil, 3463¹
 C₂₁H₄₃N₂ Benzimidazole 2 heptadecyl, 1500¹
- C₂₁H₄₃N₂O₂ Glycine, leucylglycylglycylglycylglycylglycylglycylglycylglycyl, 2040²
 C₂₁H₄₃O₂ Stearic acid, Ph ester 277²
 C₂₁H₄₃O₂ (See also *Desoxycholeic acid*)
 Fumaric acid dimethyl ester, 5145¹
 Maleic acid, dimethyl ester, 5145¹
 Ursodesoxycholeic acid, 3661¹
 C₂₁H₄₃O₂ See *Cholic acid*
 C₂₁H₄₃O₂ Cholemic acid, 3,7,13,14-tetrahydroxy, 4007²
 C₂₁H₄₃O₂ Adomdin, 2106², 3725²
 C₂₁H₄₃O₂ α Tetraamylolose, 85², 1495²
 C₂₁H₄₃NO₂ Phthalic acid, mono-Bu ester, BuN salt, P 3666¹
 C₂₁H₄₃ Cyclohexane 1 3,5-tricyclohexyl, 2713²
 C₂₁H₄₃N₂O₂ Succinamide dilupinyl, 3007²
 C₂₁H₄₃N₂O₂ Cellotetrose, 4119²
 C₂₁H₄₃NO₂ Sphingosin, triacetyl, 4278²
 C₂₁H₄₃O₂ 1 13 Cyclotetracosanedione, 922²
 C₂₁H₄₃N₂O₂ Pyrimidine 2,2,4 6 tetrabutoxy 5,5 diethyl 2 5 dihydro, 4229¹
 C₂₁H₄₃O₂ Cyclotetracosanone, 922²
 C₂₁H₄₃O₂ Brassic acid Et ester, 462²
 ‡ Tetracosenic acid, 113²
 C₂₁H₄₃O₂ 1 20 Eicosanedicarboxylic acid, di Me ester 3321¹
 Phellonic acid, acetate, 3321¹
 C₂₁H₄₃O₂ Lauric acid, α α'-dithioes, 982²
 C₂₁H₄₃ Cyclotetracosane 922²
 Hydrocarbon from pelandjaic acid, 937²
 2 Tricosene 2-methyl, 68²
 C₂₁H₄₃Co₂Hg₂Nu₂Su, 392²
 C₂₁H₄₃Cr₂Cu₂Nu₂Su, 392²
 C₂₁H₄₃O₂ (See also *Lignoceric acid*)
 Tetracosanonic acid, 189² 277², 3860²
 C₂₁H₄₃ Tricosane 2 methyl, 67²
 C₂₁H₄₃N₂O₂ 1 4 Piperazinediethanol, α α diethyl, α,α dimethyl, and di HCl 517²
 C₂₁H₄₃N₂O₂ 1,4 - Piperazinediethanol, α α' bis[(heptyloxy)methyl]-, di HCl, 518²
 C₂₁H₄₃O₂ 2 Tricosanol, 2-methyl, 67²
 C₂₁H₄₃P Phosphine, triacetyl, 3662²
 C₂₁H₄₃N₂O₂SiW₂ Glycine, V, V dimethyl Et ester betaine, subcutaneous, 607²
 C₂₁H₄₃N₂O₂PW₂ Choline acetyl α methyl, phosphotungstate, 657²
 C₂₁H₄₃N₂O₂SiW₂ Homoneurine, subcutaneous 657²
 C₂₁H₄₃AlO₂ Aluminum-tricosane acid 5862²
 C₂₁H₄₃N₂O₂SiW₂ Choline, α methyl picotungstate 607²
 C₂₁H₄₃N₂O₂ 6(2) meso Anthrapyrazolone 2 (3-carboxy 2 naphthyl), P 5576²
 C₂₁H₄₃N₂O₂ 2 - Thionaphthene-carboxylic acid, 1 1-carboxylbis-anhydride, phenyl hydrazone, 5167²
 C₂₁H₄₃O₂ para (1 8) Phthaloyl 2 naphthol, benzoate, 4546²
 C₂₁H₄₃ Phenanthrafluorene 2717²
 C₂₁H₄₃Ag₂N₂O₂ Crescorinol, α α di Ag deriv, 2992²
 C₂₁H₄₃Br₂O₂ 3 6-Xanthenediol 9 9-diphenyl dibromo deriv, 3644¹
 C₂₁H₄₃K₂O₂ 3 6 Xanthenediol, 9 9 d phenyl di K deriv, 3644¹
 C₂₁H₄₃N₂O₂ 9 Fluorenone bis(o nitro phenyl) mercaptole 290²
 2 Thionaphthene-carboxylic acid 1 1 carbonylbis-phenylhydrazone 5167²
 C₂₁H₄₃O₂ Sporo[fluorene 9 9 xanthene] 3,6-diol 3644¹

- C₁₁H₁₇Cl Propene 3 chloro 1 (2 naphthyl) 3 3 diphenyl 1501¹
- C₁₁H₁₇ClN₂ Benzamidine \, \, \ tris(p chlorophenyl) 692¹
- C₁₁H₁₇NO₃ Naphthacenequinone 1 hydroxy 4 (p tolylsulfonamido) 5162¹
- C₁₁H₁₇N₂O₂ Quinoline, 6,6 p-nitrobenzyl is 2992¹
- C₁₁H₁₇Cl₂N₂ Benzamidine bis(p-chlorophenyl) phenyl 692¹
- C₁₁H₁₇N₂O₂ Quinoline 6,6 benzyl is and chloroplatinate 2992¹
- C₁₁H₁₇N₂O Cresol α α di 6 quinolyl 2992¹
- C₁₁H₁₇N₂O₂ Cresoranol α α di 6 quinolyl 2992¹
- C₁₁H₁₇N₂O₂ 2,4 α,γ Dibenzophenazinediol 11(or 12) methyl, diacetate 1244¹
- C₁₁H₁₇O Benzophenone p,p-diphenyl 4256
- Ketone 2 fluoryl 2 methyl 1 naphthyl 271¹
- C₁₁H₁₇O₂ Benzoic acid 3 5-diphenyl benzoate 737¹
- C₁₁H₁₇O₃ Carbamic acid thiono bis o-phenyl phenyl ester 209¹
- C₁₁H₁₇O₃ 3,6 Xanthenediol 9 9 d phenyl 3643¹
- C₁₁H₁₇O₃ 3,6 Xanthenediol 9 phenyl 9 (trihydroxyphenyl) 3644¹
- C₁₁H₁₇S₂ 9 Fluorenone d phenyl mercaptole 290¹
- C₁₁H₁₇ Methyl, d phenyl(p phenylphenyl) 5529¹
- C₁₁H₁₇BrN₂ α Naphthothiazole, 1 (2 methyl) 1(2) α naphthothiazolyl idenemethyl methobromide 704¹
- C₁₁H₁₇ClN₂ Benzamidine (p chlorophenyl) d phenyl 692¹
- C₁₁H₁₇ClN₂ α Naphthothiazole 1 2 methyl 1(2) α naphthothiazolylidene methyl methochloride, "04"
- C₁₁H₁₇Cl₂N₂ 2 (4 Anilino 3 chloro 2 quinolylmethyl)isoquinolinium chloride 2430¹
- C₁₁H₁₇BrN₂ α Naphthothiazole 1 (2 methyl) 1(2) α naphthothiazolylidenemethyl methiodide "04"
- C₁₁H₁₇NO₂ Benzophenone o nitrophenyl phenyl mercaptole 2413¹
- C₁₁H₁₇N₂O₂ 1 Acetonaphthone 4 benzyl picrate, 1515¹
- C₁₁H₁₇N₂O₂ Benzophenone p (p nitrophenyl)oxyphenylhydrazone 2132¹
- C₁₁H₁₇Methane, tetraphenyl 5830¹
- C₁₁H₁₇N₂ Benzamidine N, N N triphenyl 692¹
- C₁₁H₁₇N₂O 2 Naphthoic acid 4,4 (ureidodi methylene)bis(hydroxy P 1261 5400¹
- C₁₁H₁₇N₂O₂ Pyridine dibenzyl picrate 5420¹
- C₁₁H₁₇NO₂ 2 Butenone 4 (3 hydroxy p anisyl) , oxime di B₂ deriv 2132¹
- C₁₁H₁₇N₂O₂ Cinchophen 6 ethoxy benzal hydrate 4884¹
- Cinchophen 6 methoxy α methyl benzalhydrate 4881¹
- Quinaldine α (p dimethylaminobenzal) nitro-4 phenyl, 1530¹
- C₁₁H₁₇N₂ 3 Acenaphtheneamine 2 2 methyl enisyl, 3988¹
- Diphenylamine, p,p' methylenebis-, 2992¹
- C₁₁H₁₇N₂O₂ p Cinchonopheneticide, 6 methoxy 2 phenyl, 4883¹
- C₁₁H₁₇N₂O₃ Cinchophen, 6 methyl 7 p tolylsulfonamido, Me ester, 699¹
- C₁₁H₁₇N₂O₂ S, Alanine N glyceryl di 2 naphthalenesulfonyl deriv 2741¹
- C₁₁H₁₇O₃ Thionaphtheneacetic acid α α di p anisyl Me ester 2144¹
- C₁₁H₁₇O₃ Sulfonic acid tolyl(2(or 4) phenyl)sulfone 4 (or 2)-diphenyl 283¹
- C₁₁H₁₇O₂ Dehydratoxicarol acetyl 3640¹
- C₁₁H₁₇O₂ 1 methylcarbamate 2136¹
- C₁₁H₁₇NO Carbonyl p dimethylaminophenyl 1 naphthyl benzyl 5673¹
- C₁₁H₁₇N₂O₂ Quinaldine 4 p acetamidophenylaminol 6 methoxy "04"
- C₁₁H₁₇N₂O₂ Ithbalazine 6 7 dimethoxy 1 veratryl picrate 297¹
- C₁₁H₁₇N₂O₂ Isoquinoline 6 benzoyloxy 3 4 dihydro 1 (p nitroveratryl) and salts 4552¹
- C₁₁H₁₇O₂ Ether 10 benzal 9 10 dihydro 1 4 d methyl 9 anthryl ethyl 2 95¹
- Ither α (4 dimethyl 9 anthryl) benzyl ethyl 454¹
- C₁₁H₁₇O₂ Benzoyl deriv m 170¹ of acid m 10¹ 149¹
- C₁₁H₁₇O₂ Acacatechol pentaacetate 719¹
- Isoacacatechol pentaacetate 719¹
- C₁₁H₁₇AsN₂O₂ o Tolueneacetic acid 4 (4 methoxy 2 methyl 4 quinolyl amino) m tolyl 1528¹
- C₁₁H₁₇AsN₂O₂ Benzeneacetic acid 9 methoxy 4 (4 methoxy 2 methyl 4 quinolylamino) m anisyl 1528¹
- C₁₁H₁₇ClMoN₂ 589¹
- C₁₁H₁₇NO Indoline 1 acetyl 3 3 dibenzyl 2 methyl 5425¹
- C₁₁H₁₇NO Acetoacetanilide o benzohydryl 4 ethyl 1509¹
- C₁₁H₁₇NO₂ 3 Pentose 5 anilino 1 5 di p anisyl 3641¹
- C₁₁H₁₇N₂O Quinaldine 4 [4 (4 amino m tolyl) o toluene] 6 methoxy 1529¹
- C₁₁H₁₇N₂O₂ Quinolone m nitrobenzyl is [1 2 3 4 tetrahydro 2992¹
- C₁₁H₁₇N₂O₂ Quinaldine 4 [4 (4 amino m anisyl) 2 methoxyamino] 6 methoxy 1528¹
- C₁₁H₁₇N₂ Pyrimidine 2 4 6 tris(V methyl anilino) 6676¹
- C₁₁H₁₇N₂O Carbonyl bis(4 dimethylamino 1 naphthyl) 1013¹
- Cresol α α bis 1 2 3 4 tetrahydroquinols 2992¹
- C₁₁H₁₇N₂O₂ Cresoranol α α bis(1 2 3 4 tetrahydroquinolyl) 2992¹
- C₁₁H₁₇N₂O₂ Isoquinoline 1 (2 aminoveratryl) 6 benzoyloxy 3 4 dihydro and HCl 4552¹
- C₁₁H₁₇N₂O₂ 1 5 Pentanediol 3 phenyl dicarbamate 1832¹
- C₁₁H₁₇N₂O₂ Benzamide V \ (trimethoxy xylene)bis 1226¹
- C₁₁H₁₇N₂O₂ Dinicotinic acid 1 2 dihydro 2 6 dimethyl 4 (m nitrophenyl) 1 phenyl di Et ester 3998¹
- Homoveratramide V (m benzoyloxy) phenethyl 2 nitro 4552¹
- C₁₁H₁₇N₂O₂ Isoquinoline 1 (8 aminomethyl) 1 2 3 4 tetrahydro 6 7 dimethoxy, dipicrate 1530¹
- C₁₁H₁₇O₂ Δ^{1,4} 5 Noratetrenone, 2 8 diethyl 1 9-diphenyl, 1230¹
- C₁₁H₁₇O₂ Rotenolone β-dihydro, Ac deriv 1251¹

- Tonicare acetylaldehyde-3649¹
 C₂H₂O₂ Dequic acid acetyl-3650¹
 C₂H₂NO₂ 1) drastine acid tartrate 2149¹
 C₂H₂NO₂ 2) monane phenylazo-2147¹
 C₂H₂CuF₂N₂P₂ + H₂O 1701¹
 C₂H₂NiO₂ pro cyclopropane 1 2 indan]
 3 d carboxamide 3a 4 5 6,7,7a
 hexahydro-2334¹
 C₂H₂O₂ Dehydrodihydrofrotenolic acid as
 h₂ l₂ d₂ s₂ th AcO₂ 3650
 Desoxytoxicarol acetylaldehyde-3649¹
 C₂H₂NO₂ Compd b 240-2° from tropine
 hydrocinamate and hydrocinamic acid
 4 3
 C₂H₂NiO₂ 1) monomene dihydrophenylazo-
 2147¹
 C₂H₂ClN₂ 1) Cry tal 1 ole
 C₂H₂ClN₂O₂ Crystal violet perchlorate 1013¹
 C₂H₂Cl₂O₂ Carbonyl 1) diethylaminoethyl
 aminoethyl)diphenyl P 25 4¹
 C₂H₂N₂O₂ 1) trychone tetrahydro di Ac
 deris and perchlorate 2432¹
 C₂H₂N₂O₂ 2 4-Pentamidine diphosphate,
 4223
 C₂H₂O₂ Bixin 315
 C₂H₂O₂ S₂ Acetylaldehyde p toluenesulfonyl
 acetonehexose 1211¹
 C₂H₂O₂ Ferulic acid tetraacetyl β d glucoside
 Me ester 2131¹
 C₂H₂AlO 65¹
 C₂H₂ClN₂O₂ 1 3 3 5 7 Pentamethyl 2
 (1 3 3 trimethyl 2(3) indylidene
 methyl)bisphosphorodiamide perchlorate 2427¹
 C₂H₂NO₂ 1) Lucine butyrate 515¹
 C₂H₂N₂O₂ Isopyrrole 2 (4 5 dimethyl 3
 propyl 2 pyrrolidyl)dimethyl
 propyl picate 3010
 C₂H₂N₂O₂ Aniline f p 2 furalbis\ V
 diethyl and HCl 101¹
 C₂H₂O₂ 2 5 Heptadecan 4 ol 1 7 dicyclo
 hexyl 6 phenyl 457¹
 C₂H₂O₂ Anhydride, m 206° of dibasic acid
 ol 3
 C₂H₂LiO₂ Dehydrocholeic acid duode-, Me
 ester 477¹
 C₂H₂N₂O₂ Veratraldehyde 6 (β dimethyl
 aminoethyl) 2 (4 (δ dimethyl
 aminoethyl) 5 formyl 2 methoxy
 phenoxyl 2983¹
 C₂H₂N₂O₂ 1) Diethylaminopropyl]triethyl
 ammonium picate picate 5396¹
 Propylphenyl]diethylmethylammonium pic
 rate) 5396¹
 C₂H₂O₂ Isostrophanthone acid di Me ester,
 5173¹
 C₂H₂O₂ Dibasic acid m 191 3° 5173¹
 C₂H₂O₂ Dehydrocholeic acid 2 bromo-, Me
 ester 427¹
 C₂H₂BrO₂ Glucose 6 bromohydrin, tetra
 acetylglucosidomonoacetatemonoacetyl,
 80¹
 C₂H₂BrO₂ Dehydrodesoxycholeic acid tri
 bromo- Me ester 42 9¹
 C₂H₂ClN₂O₂ β Chlorotrimethylenes[di
 ethyl]ethylammonium picate) 5396¹
 C₂H₂ClO₂ Choleic acid chlorodiketo-, Me
 ester, 4007¹
 C₂H₂LiO₂ Glucose 6 sodohydrin tetraacetyl
 glucosidomonoacetatemonoacetyl 80¹
 C₂H₂BrN₂ p p - Methylenebis[allylethyl
 methylphenyl]ammonium bromide) 1065¹
 C₂H₂BrO₂ Dehydrodesoxycholeic acid di
 bromo-, Me ester, 42 9¹
 C₂H₂Cl₂O₂ Cholanic acid, dichlorodiketo-,
 Me ester, 4504¹
 C₂H₂N₂O₂ 4 Isopyrrolepropionic acid,
 2 (4 (β carboxyethyl) 5 (ethyl
 mercaptomethyl) - 3 methyl 2 pyrrol-
 methylene] 5 - (ethylmercaptomethyl)
 3 methyl, di Me ester, HBr, 3356¹
 C₂H₂N₂O₂ p p Methylenebis[allyl]ethylmethyl
 phenylammonium picate) 1062¹
 C₂H₂N₂O₂ Trimethylenes[diethylmethyl-
 ammonium picate) 5396¹
 C₂H₂N₂O₂ β 1) drosytrimethylenes[diethyl
 methylammonium picate) 5396¹
 C₂H₂O₂ Apocholanic acid, Me ester, 4007¹
 C₂H₂O₂ Choleic acid, 3,7-diketo-, Me ester,
 4007¹
 C₂H₂O₂ Pyrocholanic acid, di Me ester,
 3662¹
 C₂H₂ClN₂O₂ Choleic acid, chlorodiketo-, Me
 ester, duodecyl, 4564¹
 C₂H₂ClO₂ Choleic acid, chloroketo-, Me ester,
 4003¹
 C₂H₂Cl₂N₂O₂ Cholanic acid, dichlorodiketo-,
 Me ester, duodecyl, 4504¹
 C₂H₂N₂O₂ Dehydroapocholeic acid, Me ester,
 duodecyl, 4007¹
 C₂H₂O₂ Pelandanic acid, 937¹
 C₂H₂BrN₂O₂ Piperazine, 2,3,5,6 - tetra
 methyl 1 p tolylsulfonyl -, bromo-
 camphorsulfonate, 4272¹
 C₂H₂N₂O₂ Lupanine, camphorsulfonate,
 3006¹
 C₂H₂N₂O₂ Piperazine, 2,3,5,6 tetramethyl,
 1 p tolylsulfonyl -, camphorsulfonate,
 4272¹
 C₂H₂O₂ 4 7 Hendecadecan 6 ol, 3,9 - di
 ethyl 6 (γ ethyl γ - methyl - 1 -
 pentenyl) 3 9-dimethyl, 5590¹
 C₂H₂O₂ Apocholeic acid, Me ester, 4007¹
 Oleic acid, butyl ester, 4629¹
 C₂H₂O₂ Lithocholic acid, dehydro-, Me ester,
 4004¹
 C₂H₂O₂ Apocholic acid, oxido-, Me ester,
 4007¹
 Choleic acid, oxidodihydroxy, Me ester
 4007¹
 C₂H₂NO₂ Lithocholic acid, dehydro-, Me ester,
 oxime, 4004¹
 1) picate, 4004¹
 C₂H₂N₂O₂ 1) Leucine, Δ, V', V'' (hydroxy
 methylphenyl)trisulfonyl]tris, 491¹
 C₂H₂O₂ P 2) Bis(diacetonefructose) - 1 phos
 phonic acid, Me ester, 5148¹
 C₂H₂O₂ 3 Octadecanone, 1 (4 hydroxy - m
 anyl) 39,8¹
 Pelandanic acid, tetrahydro-, 937¹
 C₂H₂O₂ Cholanic acid, 3,7,13 14-tetra
 hydroxy, Me ester, 4007¹
 C₂H₂N₂O₂ Glutaramide, diphenyl, 3007¹
 C₂H₂O₂ Malonic acid, dimethyl, dimethyl
 ester, 289¹
 C₂H₂N₂O₂ + 2H₂O 1) picate, isopicate
 4630¹
 C₂H₂ClO₂ Behenic acid 4-(chloroformyl),
 Et ester, 490¹
 C₂H₂LiO₂ 1,21 Henecanedicarboxylic acid,
 mono-Et ester, 490¹
 C₂H₂NO₂ Adipamic acid, V heptadecyl, Et
 ester, 497¹
 C₂H₂Cl₂O₂ Dibenzoyl]chrysene - 5,8,13,16 -
 tetrone, dichloro-, P 2009¹
 C₂H₂O₂ Methyl trianhydride, compd with

- anthracene 9th compd with phenanthrene, 9th
- C₂₁H₁₄O₅S: Benzo[1,2-a,5,4-a']thiophene-8,16-dione, 516th
- C₂₁H₁₄O₄: Dibenz[*a,h*]chlorine 5,8,13,16-tetrone, P 2006th
- C₂₁H₁₄N₄: Dibenz[*a,h*]quinoxaline[2,3-*a*]phenazine, 3343th
- C₂₁H₁₄O₄: 1,3 Indandione 2,2' terephthalaldehyde, 1517th
- C₂₁H₁₄O₄: 1,2 - Benzanthrene 7,12 dione 4 (o-carboxybenzoyl), P 2006th
- C₂₁H₁₄N₂O₇: Perylene, picrate, 4874th
- C₂₁H₁₄N₂O₃: 2 Naphthol, 1 (1 picrylmercapto 2 naphthoxy), 3331th
- C₂₁H₁₄: Anthra[2,1-β]phenanthrene, 2717th
- Δ^{3,4} Fluorene, 1237th
- Dibenz[*a,h*]naphthalene, 2717th
- Dibenz[*a,h*]triphenylene, 912th
- C₂₁H₁₄Br₂: Fluorene, 2,7 dibromo - 9 di phenylmethylene, 1238th
- C₂₁H₁₄Br₂O₂: 9,9' Bixanthyl, 9,9 dibromo tetrabromide, 1238th
- C₂₁H₁₄Br₂S₂: 9,9' Bithioxanthylum perbromide, 2428th
- C₂₁H₁₄ClNO₄: o - Benzeno[10]anthracene - 1,4 dione 2 amino 3 chloro 5,10 dihydro-, 5160th
- C₂₁H₁₄K₂O₄: Ketone, 3,6 dihydroxy 9 phenyl 9 xanthylphenyl di K deriv, 3644th
- C₂₁H₁₄N₂O₂: 8 - Indolo[3,2-1-*a*]acridin 8 one 8 benzeno-, 2098th
- 8 Indolo[3,2-1-*a*]acridin - 8 one, 6 subcylalamino-, 2905th
- Xanthone azine, 2413th
- C₂₁H₁₄N₂O₃: Benzophenone, 4,4' thioles- (3 and 4) nitro-, 2128th
- C₂₁H₁₄N₂O₃S: Benzophenone, 4,4' - selenobis- (3 and 4) nitro-, 2128th
- C₂₁H₁₄N₂O₂: Benzophenone 4,4' - oxybis (3 and 4) nitro-, 2127th, 2128th
- C₂₁H₁₄N₂PbS₂: Benzothiazole, 1 mercapto - 5 phenyl, Pb deriv 2909th
- C₂₁H₁₄N₂S₂: Thioxanthone, azine 2114th
- C₂₁H₁₄N₂S₂: Benzothiazole, 1,1 dithioylas[5 phenyl-, 299th
- C₂₁H₁₄N₂S₂Zn: Benzothiazole 1 mercapto 5 phenyl, Zn deriv, 2099th
- C₂₁H₁₄N₂O₄: Anthraquinone, 1,5 bis(p hydroxy phenylazo), 2718th
- C₂₁H₁₄N₂O₄: Quinoxaline, 2,3 bis(p - nitro phenyl) 6 phenoxy, 1816th
- C₂₁H₁₄N₂O₄: Anthraquinone, 1,5 bis(2,4 dihydroxyphenylazo), 2718th
- C₂₁H₁₄O₄: Bixanthene, 1237th
- C₂₁H₁₄O₄: 7,8-Benzodilavone 3 benzoyl, 4267th
- C₂₁H₁₄O₄: Anthraquinone, 1,5-diphenoxy, 2140th
- Sp rolphenanthrene 9(10) 9 xanthyl - 10 one 3,6-dihydroxy, 3644th
- C₂₁H₁₄O₄S₂: 4th Bithioxanthene, disulfone 2428th
- C₂₁H₁₄Br₂O₂: Anthrone 10 bromo 1,5 - di phenoxy, 2140th
- C₂₁H₁₄N₂O₃: 2 Naphthol, 1,1' - thioles, picrate, 3331th
- C₂₁H₁₄: 9,9 Fluorene, 942th
- Fluorene 9-diphenylmethylene, 1237th
- C₂₁H₁₄Br₂N₂O₂: Nicotinonitrile, hydroxy methylphenyl, Ba deriv, 2999th
- C₂₁H₁₄Br₂: Ethylene 1,1 - dibromo 2,2 bis-(p-phenylphenyl), 1616th
- C₂₁H₁₄Br₂O₄: 3,9 Perylenedicarboxylic acid, dibromo di Et ester, 292th
- C₂₁H₁₄Cl₂N₂O₂: Phenol, p phenylazo, compd with p - O₂C₆H₄COCl, 3321th
- C₂₁H₁₄CoN₂O₂: Nicotinonitrile hydroxymethyl phenyl, Co deriv, 2999th
- C₂₁H₁₄CoN₂O₂: 1(2) Phthalazone 4 hydroxy nitro, Co deriv, pyridine complex 4001th
- C₂₁H₁₄CuN₂O₂: Nicotinonitrile hydroxy methylphenyl Cu deriv 2999th
- C₂₁H₁₄CuN₂O₂: 1(2) Phthalazone 4 hydroxy nitro Cu deriv, pyridine complex 4001th
- C₂₁H₁₄N₂NiO₂: Nicotinonitrile hydroxymethyl phenyl Ni deriv, 2999th
- C₂₁H₁₄N₂O₃S₂: p p Balenzenesulfonic acid 3,3 bis(p nitrobenzamide) 4871th
- C₂₁H₁₄N₂O₄: Anthraquinone, 1,5 bis(p amino phenylazo) 2718th
- C₂₁H₁₄N₂NiO₂: 1(2) Phthalazone 4 hydroxy nitro - Ni deriv, pyridine complex 4001th
- C₂₁H₁₄O₂: Ketone 2 methyl 1 naphthyl 3 phenanthryl 2717th
- C₂₁H₁₄O₂S₂: 9 Fluorene 9 phenylmercapto benzoate 2413th
- C₂₁H₁₄O₂: Anthrone 1,5-diphenoxy, 2140th
- C₂₁H₁₄O₂: 9 Bixanthylidene 4879th
- Ketone 3,6 dihydroxy 9 phenyl 9 xanthylphenyl 3644th
- C₂₁H₁₄O₂m: α Benzodifuran 2,4(1,5) dione 1,5 bis(m methoxybenzyl) 1626th
- C₂₁H₁₄O₂: 2 Naphthol anhydride 3,3 di hydroxy diacetate 2140th
- C₂₁H₁₄O₂: Thiolephoric acid triacetate 221th
- C₂₁H₁₄S₂: 9 Fluorine disulfide 942th
- C₂₁H₁₄Br₂: Ethylene 2 bromo 1,1 bis(p phenylphenyl) 1516th
- C₂₁H₁₄Br₂N₂O₂: Resorcinol (p nitrophenyl azo) compd with H₂Br 3322th
- C₂₁H₁₄ClN₂: Isoquinoline red, 1010th
- C₂₁H₁₄N₂: Pyrrole 1 (2 naphthyl) 2,3 di phenyl 3995th
- C₂₁H₁₄N₂O₂: Benzamide, m (p phenoxybenzoyl), 212th
- C₂₁H₁₄NO₂S: Benzohydrol α (o nitrophenyl mercapto), benzoate 2413th
- C₂₁H₁₄: Ethylene, as bis(p phenylphenyl), 1516th
- Ethylene, tetraphenyl, 212th, 41 0th, 4830th
- Sulfene p,p-diphenyl, 1514th
- C₂₁H₁₄Br₂N₂O₂: Phenol p phenylazo, compd with H₂Br 3321th
- C₂₁H₁₄CoN₂O₂: Phenol p phenylazo, compd with (COCl), 3321th
- C₂₁H₁₄Cl₂O₂: Benzopinacol, s-o o-dichloro-, 4879th
- C₂₁H₁₄CoN₂O₂: 1(2) Phthalazone, 4 hydroxy Co deriv pyridine complex, 4001th
- C₂₁H₁₄CuN₂O₂: 1(2) Phthalazone, 4 hydroxy, Cu deriv pyridine complex, 4001th
- C₂₁H₁₄N₂: Anthracene, bis(amino phenyl), P 3363th
- Benzophenone azine 4248th
- C₂₁H₁₄N₂O₂: Quinoxaline, 6,6 amsalbas, 2992th
- C₂₁H₁₄N₂O₂: Ethyldiamine, N nitro α β β β tetraphenyl 942th
- 2 Naphthol, phenylazo, compd with 2 naphthol, 1241th
- C₂₁H₁₄N₂O₂: Benzophenone 4,4 oxybis[3 (and 4) amino- and di HCl, 2127th, 2128th

- C₂₇H₄₁N₂O₄ 4 - Isopyrrolepropionic acid, 2 [5 - amino - 3 - (β carboxyethyl) 4 methyl 2 pyrrolmethylene] 3,5 dimethyl di Me ester and HBr 2432² 2433¹
- C₂₇H₄₁ClN₂PT Quinoline 2 - (aminomethyl) 4 ethyl 3 methyl amino Pt chloridesalt 5862²
- C₂₇H₄₁N₂O₂ Camphor V V β phenyleneis [3 amino- 98¹
- C₂₇H₄₁N₂O₂ Compd m 263² from Ft trans hexahydrohydrindene 2 cyanoacetate and EtONa 3333¹
- C₂₇H₄₁N₂O₂ 2 α selenophenedicarboxylic acid tetrahydro- quinone salt 4263²
- C₂₇H₄₁N₂ Ketone bis(3,5 dimethyl 2 pyrrol) amine 5809²
- C₂₇H₄₁O₂ Buxin methyl 1719¹
- Trisulbe acid di Bu ester 1500²
- C₂₇H₄₁N₂O₂ Lysine N² benzoyl V² (V benzoylucyl) 29² 4¹
- C₂₇H₄₁Cl₂O₂ Cellulose diol chloride heptaacetyl 2 hydroxy 331²
- C₂₇H₄₁Cl₂N₂PT 1,2 Propanediamine chloroplatinate compd 5862²
- C₂₇H₄₁N₂ Quinoline 3 amyl 4 amino 2 hexyl and HCl 334²
- C₂₇H₄₁N₂O₂ S₂ Chitosan V benzenesulfonyl 1224²
- C₂₇H₄₁O₂ Cellulose heptaacetyl 2 hydroxy , 331²
- Gentiobial heptaacetyl 2 hydroxy 331²
- C₂₇H₄₁O₂ Cellobiosone heptaacetate 3318²
- C₂₇H₄₁ClO₂ Gentiobiose acetochloro- 4528²
- Maltose heptaacetylchloro- 86¹
- C₂₇H₄₁NO₂ Cyclohexylamine N (β benzyl α phenylamyl) aceto oxalate 1810²
- C₂₇H₄₁NO₂ Ethanol 2 amino 1,2 di p amyl camphorsulfonate 1240²
- C₂₇H₄₁N₂O₂ Lysine N² benzoyl V² (V benzylucyl) 29² 4¹
- C₂₇H₄₁FeN₂ Compd from camphene and H₂ 1e(CN)₂ 2710²
- C₂₇H₄₁N₂O₂ Camphor V V β phenylenebis [3 amino-, 98¹
- C₂₇H₄₁N₂O₂ Homopiperonyl alcohol α methoxy α methyl β methylammonio oxalate 4538¹
- C₂₇H₄₁N₂O₂ 1,3 Propenediamine trimethyl methyl, bis(ethopicate) 5390²
- C₂₇H₄₁O₂ Styraetol glucoside heptaacetate 3317² 3318²
- C₂₇H₄₁O₂ Mannose heptaacetyl 4 glucoside 688²
- C₂₇H₄₁O₂ Cellobiosone heptaacetate hydrate 3318²
- C₂₇H₄₁BrO₂ Dehydrocholeic acid bromo Et ester 2151²
- C₂₇H₄₁N₂O₂ Piperazine methylenecamphor 1 β toluenesulfonyl 2,3,5,6 tetramethyl 4272²
- C₂₇H₄₁S₂O₂ N Ethyl N methyl V N trimethylenebis[diethylammonium picrate] 5396²
- C₂₇H₄₁N₂O₂ (γ Diethylamino β methoxy propyl)triethylammonium picrate, picrate 5393²
- β Methoxytrimethylenebis[diethylmethyl ammonium picrate] 5393²
- C₂₇H₄₁O₂ Acid m 284², from pyroquinovic acid 5146²
- C₂₇H₄₁O₂ Cholanic acid, 8,7-diketo-, Ac deriv , 3661²
- C₂₇H₄₁O₂ β Desoxythianic acid, 6 - hydroxy , lactone di Me ester, 3662²
- C₂₇H₄₁O₂ Isostrophanthudolic acid, Ac deriv Me ester 4889²
- keto ester m 220² 5173¹
- C₂₇H₄₁NO₂ Oxime m 210² of keto acid, 5173¹
- C₂₇H₄₁N₂O₂ Ehedrine 3,4 dimethoxy oxalate 4336²
- Oxalate m 147² (decomp) of Me ether of base from isochavibetol acetate, 4338²
- C₂₇H₄₁O₂ See i registered
- C₂₇H₄₁O₂ Acetic acid triethyl ethyl γ methyl - 1 pentanyl 5530²
- C₂₇H₄₁O₂ Acid m 184² (decomp) , from pyroquinovic acid 5146²
- C₂₇H₄₁O₂ Trimethyl ester m 190², of triacid 5173¹
- C₂₇H₄₁BrCl₂N₂OPT V Benzyl V β bromo benzyl N N (β methoxytrimethyl ene)bis[diethylammonium chloroplatinate] 339²
- C₂₇H₄₁Cl₂N₂OPT β Methoxytrimethylenebis- [benzyl diethylammonium chloroplatinate] 339²
- C₂₇H₄₁O₂ Tigogenin 172²
- C₂₇H₄₁O₂ δ m Doxanol 2 phenyl , palmate 76²
- 1,3 Dioxolane 4 carbinol, 2 phenyl palmitate 76²
- C₂₇H₄₁O₂ Compd , m 152² from bromo 6,7 diketocholanic acid and MeOH, 3661²
- C₂₇H₄₁NO₂ See Glycocholeic acid
- C₂₇H₄₁O₂P Bis(β diacetonefructose) 1 phosphoric acid Et ester 148²
- C₂₇H₄₁α Euphorbodiene 3657¹
- C₂₇H₄₁Cl₂P₂PT Diethylmethyl 2 α xylol phosphonium chloroplatinate 2702²
- C₂₇H₄₁O₂ Eicosanoic acid Ph ester 277²
- C₂₇H₄₁NO₂ S Taurinosulthocholeic acid, 1533²
- C₂₇H₄₁Br₂O₂ Euphorbol dibromide 3657¹
- C₂₇H₄₁N₂O₂ Tetraamylammonium picrate 2626²
- C₂₇H₄₁O₂ α Euphorbol 3656
- C₂₇H₄₁O₂ α Euphorbol dihydro- 3657¹
- C₂₇H₄₁O₂ 1,14 Cyclohexacosanedione 922²
- C₂₇H₄₁N₂O₂ Leucine V | V | N (V leucyl glycidylleucylglycidyl) isobutyl ester HCl 2743²
- C₂₇H₄₁O₂ Cyclohexacosanone 922²
- C₂₇H₄₁O₂ ε Tetraosenoic acid Et ester 113²
- C₂₇H₄₁O₂ Lauroic acid ethylene ester 3313²
- C₂₇H₄₁ Cyclohexacosane 922²
- C₂₇H₄₁O₂ Cerotic acid 25²
- Hexacosanoic acid 189² 1271
- Phthioic acid, 128² 3683¹
- C₂₇H₄₁ Hexacosane 477²
- C₂₇H₄₁O Hexacosanol 1271²
- C₂₇H₄₁As₂Cl₂PT Trisubstitutedmethylarsonium chloroplatinate 1483²
- C₂₇H₄₁O₂ 1 β Naphthothienophenecarboxylic acid, 2,2 carbonylthio , anhydride 5167²
- 3 Thiophanthrenecarboxylic acid, 2,2 carbonylthio- anhydride 5167²
- C₂₇H₄₁O₂ 1 β Naphthothienophenecarboxylic acid, 2,2 carbonylthio- 5167²
- 3 Thiophanthrenecarboxylic acid, 2,2 carbonylthio-, 5167²
- C₂₇H₄₁ClN₂O₂ Dibenz[α,α']xanthene 14 ol, 14 (α chlorophenyl) dimetro deriv 291²

- C₇H₇N₃O₂ Lupinine, Me ether, picrate, 3007²
- C₇H₇N₃O₂ Hydrastine, picrate 214²
- C₇H₇O₂ 2-Propanol, 1,1,2,3-tetrahydryl, 4255²
- Δ²-1-Propenone, 1-(7-isopropyl-1-methyl-3-phenanthryl)-3-phenyl 5424²
- C₇H₁₁O₂ Fibanol 2-methoxy 1,1,2,2-tetrahydryl 942² 943²
- C₇H₁₁O₂ 1,2,3-Cyclohexanetriol tribenzoate 921²
- C₇H₁₁N₃ Diphenylamine, p,p'-methylenebis(methyl) 200²
- C₇H₁₁N₃O₂ Quinolone 2 (β-diethylaminoethyl) dipicrate 4270²
- C₇H₁₁O₄ Mannitol tribenzoate, 4528²
- C₇H₁₁O₄ Glycerol tri 2,4-cresotate, 3636²
- Toxicarol diacetyl, 3644²
- C₇H₁₁Pb Plumbane phenyltri-o-tolyl 2648²
- C₇H₁₁N₃O₂ Quinaldine 4-[4-(4-amino-m-tolyl)-o-tolyl] 6-methoxy Ac deriv 1524²
- C₇H₁₁N₃O₂ Camphor α-hydroxy dinitrobenzoate compd with 1-naphthylamine 4871²
- Epicauphor 3-hydroxy dinitrobenzoate compd with 1-naphthylamine 4871²
- C₇H₁₁N₃O₂S Canthalol, tri-ortho-benzenesulfonate 2732²
- C₇H₁₁N₃O₄ 3-Indazolecarboxylic acid cinchonine salt 1825²
- C₇H₁₁N₃O₄ Aponucine ne dipicrate 4002²
- C₇H₁₁O₄ Toxicarol diacetyl dihydro- 3649²
- C₇H₁₁O₄ Hydroquinone monobenzoate, tetraacetylglucoside 1232²
- C₇H₁₁N₃O₂ 2-Butanone 4-diethylamino 4-(3,4-methylendioxyphenyl) 1,3-diphenyl 3641²
- C₇H₁₁N₃O₄ Borneol dinitrobenzoate compd with 1-naphthylamine 4871²
- Epiborneol dinitrobenzoate compd with 1-naphthylamine 4871²
- Isoborneol dinitrobenzoate compd with 1-naphthylamine 4871²
- C₇H₁₁N₃O₄ 3,2,7-Naphthalenedisulfonic acid 4-amino 5-bis(p-dimethylaminophenyl)hydroxymethyl 4710²
- C₇H₁₁N₃O₄ Chutemne α-methylbenzylhydrazone 954²
- C₇H₁₁N₃O₄ Aponucine, dihydro dipicrate 4275²
- C₇H₁₁O₄S Thymolsulfonaphthalein 3222²
- C₇H₁₁O₄ α-Mangostin tri Ac deriv 4277²
- C₇H₁₁O₄ Rutin 5169²
- Rutoid 2172²
- C₇H₁₁ClO₄ Pigment from the field poppy 4276²
- C₇H₁₁NO₂ 2-Butanone 4-p-anisyl 4-diethylamino 1,3-diphenyl 3641²
- C₇H₁₁N₃ Quinolone p-dimethylaminobenzoate [1,2,3,4-tetrahydro] 2992²
- C₇H₁₁N₃O₄ Sparte ne picrate 3007²
- C₇H₁₁O₄ Thelephoric acid heptamethylhexahydro- 291²
- C₇H₁₁ClN₃O₄ Brilliant green perchlorate 1513²
- C₇H₁₁N₃O₄ 3-Pyrrolicarboxylic acid 5-carboxy 2,15 [5-carboxy 3 (β-carboxyethyl)-4-methyl 2-pyrrolicmethyl] 3-ethyl-4-methyl 2-pyrrolicmethyl] 4-methyl 4009²
- C₇H₁₁N₃O₄ 2,2-Indandiacetic p-toluide, 3a,4,5,6,7,7a-hexahydro- 3333²
- C₇H₁₁N₃S Ketone, bis 3,5-dimethyl-2-pyrryl thiocarbonylhydrazine 5899²
- C₇H₁₁N₃O₄S 2-Butanone ionic acid, 3-hydroxy 1-uronic salt, 1216²
- C₇H₁₁O₄ Anhydrohydroquinone, diacetyl, 705²
- C₇H₁₁O₄ 5611²
- C₇H₁₁O₄ D-Lositan diacetyl, 705²
- Isoloxoxigenin diacetyl, 705²
- C₇H₁₁O₄ Cellulose heptaacetyl β-methyl 1499²
- Gentioloside heptaacetyl β-methyl 5117²
- Glucose, 1-β-methylheptaacetyl 6-α-glucoside- 5401²
- Maltoside, heptaacetyl(methyl) 58²
- Mannoside heptaacetyl 4-galactosidomethyl, 1222²
- heptaacetyl 4-glucosidomethyl, 654² 1221²
- C₇H₁₁BrO₄ Desoxyphenolic acid, bromo-, tri Me ester 1535²
- C₇H₁₁N₃O₄ Veratraldehyde 6-(β-dimethylaminomethyl) 2-[4-(β-dimethylaminomethyl) 5-formyl 2-methoxyphenoxyl], dimethylolide 2183²
- C₇H₁₁N₃O₄ See 1, 2 and 3
- C₇H₁₁N₃O₄ 4-Isopropylpyrrolic acid 2-[4 (β-carboxyethyl) 5 (ethoxymethyl) 3-methyl] 2-pyrrolicmethyl] 5 (ethoxymethyl) 3-methyl, di Me ester, and HBr 3356²
- C₇H₁₁O₄ Dehydroergosterol 301² 3663²
- C₇H₁₁O₄ Elemic acid 3657² 4879²
- C₇H₁₁O₄ Dioxigenin diacetyl dihydro-, 705²
- C₇H₁₁O₄ Desoxyphenolic acid 6-keto-, tri Me ester, 1535²
- C₇H₁₁O₄ Desoxyphenolic acid 5-hydroxy 6-keto-, tri Me ester 1535²
- C₇H₁₁NO₄ Elemic acid oxime 3657²
- C₇H₁₁O₄ (See also Ergosterol)
- Isogosterol 1836²
- Suprasterol 301²
- C₇H₁₁O₄ (See also Elemic acid)
- Elemic acid dihydro-, 3657²
- C₇H₁₁O₄ Compd m 69-70° isomeric with tri Me ursodesoxybilanic acid 3661²
- Ursodesoxybilanic acid tri Me ester 3661²
- C₇H₁₁O₄ β-Desoxybilanic acid 8-hydroxy Me ester 3662²
- C₇H₁₁NO₄ Elemic acid aminohydro- 3657²
- C₇H₁₁N₃O₄ Tyrosine N-[N (N-leucyl leucyl)ethyl], isobutyl ester, -HCl, 2742²
- C₇H₁₁NO₄S m Cresoldis(sulfonylleucine) mono sulfonylleucylglycine, 491²
- C₇H₁₁O₄ Anasterol, 113
- Episterol 113²
- Ergosterol dihydro 1836² 3367² 5174²
- Isodihydroergosterol 1836²
- Photodihydroergosterol, tetrahydro-, 301²
- C₇H₁₁O₄ Elemic acid dihydro-, 3657², 4870²
- C₇H₁₁Er₂Osten 1836²
- C₇H₁₁O₄ (See also Cholesterol) 4912²
- γ-Ergosterol, 1257²
- Isomer ergosterol 1257²
- Satosterol, 1257²
- Typhaesterol 172²
- C₇H₁₁O₄ Pelandjaanic acid tetrahydro-, Me ester, Me ether, 937²
- C₇H₁₁O₄ Cholesterol phosphoric acid, 2181²
- C₇H₁₁S Cholesterol, thio-, 2151²

- C₂₀H₁₆O₂P Phosphoric acid monocholesterol ester P 133V
- C₂₀H₁₆O₂ Ergosterane 1636
- C₂₀H₁₆O₂ Cholesterol dihydro 324
Er o tanol 1,7
Er o tanol 1,7
- C₂₀H₁₆O₂ Malonic acid diethyl dimethyl ester 259
- C₂₀H₁₆O₂ N-methyl 3662
- C₂₀H₁₆O₂ Caprylin 991
- C₂₀H₁₆O₂P Acid from cholesterol P and O- 215
- C₂₀H₁₆O₂ Pelandriane acid diethyl-Me ester Me ether 47
- C₂₀H₁₆O₂ Sebacic acid N heptadecyl and Ba salt 497
- C₂₀H₁₆O₂ Acid m 80 51 from sapropel 89
- C₂₀H₁₆O₂ Heptacosane 347
- C₂₀H₁₆O₂ Br O₂ 11 Bianthraquinone 2 2 d bromo 333
- C₂₀H₁₆O₂ Flavanthrene 333
- C₂₀H₁₆O₂ Anthraquinone 606
- C₂₀H₁₆O₂ 7 18 Naphthodianthrene-1,8-dihydroxy 119
- C₂₀H₁₆O₂ 3 3 3 Anthranthrene 1 6 11 2 trione 4 keto 7 acetylphenylketene 7
- C₂₀H₁₆O₂ 7 14 Naphthodianthrene-2,3,4,5-tetrahydroxy 1519
- C₂₀H₁₆O₂ Dinitro[1,2,8,13]tetracyclopentene 6 8 13 trihydroxy P 1539 P 1534
- C₂₀H₁₆O₂ Cl O₂ Benzene[6,13]pentacene 17 20-dione 18 19 d chloro 6 13 dihydro- 3160
- C₂₀H₁₆O₂ Cl O₂ Benzene[6,13]pentacene 17 20-dione 15 16 18 19 tetrachloro 6 13 15,16-tetrahydro 5160
- C₂₀H₁₆O₂ Pentacene[6,13] dihydro-tetra chlorohydroquinone ether 2142
- C₂₀H₁₆O₂ Anthraquinone 1 hydroxy Co deriv 103
- C₂₀H₁₆O₂ Cu Anthraquinone 1 hydroxy Cu deriv 103
- C₂₀H₁₆O₂ 6 21 meso Anthrapyrazolone 2 (1 anthraquinone) P 577
- C₂₀H₁₆O₂ Indanthrene 696 564 P 1568 5669
- C₂₀H₁₆O₂ Helianthrene tetrahydroxy 1519 1520
- C₂₀H₁₆O₂ Benanthraquinone tetrahydroxy 1519 P 1539
- C₂₀H₁₆O₂ D naphthol[2,3 + 2,3] dicarbonyl-15,17 dione 441
- C₂₀H₁₆Br N O₂ Isonidigotin 5 5 d bromo 1 1 d phenyl 204
- C₂₀H₁₆Cl N O₂ Acetylphenanthroquinone 3 chloro compd with Ph O₂ 2716
- C₂₀H₁₆Cl O₂ Pentacene 6 13 dihydro 13 (2 3 5) tetrachloro 4 hydroxy phenoxyl 2142
- C₂₀H₁₆O₂ Seroid benzophenanthrene 7 2 phthalide, 2141
- C₂₀H₁₆O₂ (3') Benzophenanthrene[8,8] dione, 3 3-diacetyl, 1519
- C₂₀H₁₆O₂ (3' 4') Benz naphthothio phenyl 3 3 dione 6 11-carboxy methylmercapto and ds 4 4 4 4 3032
- C₂₀H₁₆N O₂ 3310 Benzene sulfonylamine acid, 4561
- C₂₀H₁₆N O₂ 7 7 Dibenzazepine 14 - (3 4 methylendianthryl), 704
- C₂₀H₁₆N O₂ Carbamide, m 8 11 - dihydro-6,11 diketo 2 - β anthracenyl 2724
- C₂₀H₁₆N O₂ 2 Naphthol, 1 - (1-methylmercapto 2 naphthyl) acetate, 3331
- C₂₀H₁₆Br Benzofluorene, 2,6 dibromo 3 8 - triphenyl, 1238
- C₂₀H₁₆Br O₂ Glutamic acid, α - bromo - γ - dihydroxy β methoxy, γ lactone and α bromo γ keto - β - methoxyglutamate bis(3,4,5 trisubstituted, 6-dimethoxy phenyl) ester (?), 1229
- Glutamic acid, γ, γ' - bis(bis(α bromo γ - hydroxy β methoxy di γ - lactone, bis 3, 4 5 trisubstituted, 2,6 dimethoxy phenyl) ester (?) 1229
- C₂₀H₁₆N₂ Compd, m 215°, from α C₂₀H₁₆N₂ and oxidation product of mono-Br deriv of dibenzofluorene, 4235
- C₂₀H₁₆N O₂ Isonidigotin, 1,1'-diphenyl, 203, 204
- Quinoxaline 3 4 bis(4-hydroxyphenyl), P 216
- C₂₀H₁₆N O₂ Thiophene, 2,5-bis(2,3 dihydro-2 keto 2 - (2 thienyl) - 3 - oxy), 293
- C₂₀H₁₆N O₂ Quinoxaline, 5,8-dibenzamido-, 2645
- C₂₀H₁₆N O₂ 3 4(3) Quinoxaline, 2,2 - dithio-bis(3-phenyl) 3002
- C₂₀H₁₆N O₂ Compd m 223°, 1011
- C₂₀H₁₆O₂ Benzene[6,13]pentacene - 17 20-dione 6 13 15,16-tetrahydro-, 5160
- 6 13 Pentacenediol 6,13 dihydro, hydroquinone ether, 2142
- C₂₀H₁₆O₂ 10 10 Benanthrene 3,4' dihydroxy, 1519
- α Naphtholphthalene, 3222 5416
- C₂₀H₁₆O₂ 3 4 Benanthrophthalene, diacetate, 1233
- C₂₀H₁₆O₂ Benzid dihydroxy benzoxazole, 1244
- 10 10 Benanthrene, tetrahydroxy, 1519 15, 1520
- C₂₀H₁₆Cl Benzofluorene 2 chloro - 3,5,8-triphenyl, 1237
- C₂₀H₁₆ClN₂ Pyrazine (chlorophenyl)triphenyl, 1493
- C₂₀H₁₆ClO₂ Dibenzosulfoxanthrene 14 (chlorophenyl) 14 methoxy 281, 1823
- C₂₀H₁₆Cl Naphthalene 1 node 2 3,4 triphenyl, 4250
- C₂₀H₁₆N O₂ Acetophenone α (α metoxyphenyl), di Br deriv 4863
- C₂₀H₁₆N Quinoline 2 (di 2 quinoxalyl)methyl ene) 1 2-dihydro-, 5675
- Quinoxaline 2 2 2' methenylidene-, 5675
- C₂₀H₁₆N O₂ Compd m 190° 1011
- C₂₀H₁₆ Benzofluorene 3 8 8-triphenyl, 1234
- Naphthalene 1 2 3 triphenyl, 4250
- C₂₀H₁₆Br O₂ [2 2 Benaphthalene] - 1,1,3,3-tetrol 4 4-d bromo-, tetraacetate 945
- C₂₀H₁₆Cl N O₂ Benzidine, γ, γ' bis(dichloro vanil) 944
- C₂₀H₁₆N₂ Compd m 156°, 2011
- C₂₀H₁₆N O₂ Pyrazine 2,3,5,6 tetraphenyl, 1,4-dioxide 1492
- 3 5 Pyrazoledione 4 diphenylmethylenes 1 2-diphenyl, 2145
- C₂₀H₁₆N O₂ 3 3 Box adole, 3 hydroxy 1,1'-diphenyl 294
- C₂₀H₁₆N O₂ Glyoxime, diphenyl, dibenzoyl deriv, 4747
- C₂₀H₁₆O₂ Benzophenone p p' vinylencarboxyl, 943
- Sporol 2 benzopyran 2 3 + 4, β - naphthopyranol benzyl, 4350

- C₂₃H₁₇O₂ Compd, m 211.2°, from BrI and anthrahydroquinone, 948¹
- C₂₃H₁₇O₂ 9 - Anthrol, 1,5 diphenoxy acetate 2140¹
Diacetate, m 224°, of compd m 247° 5418¹
- C₂₃H₁₇O₂ 7,8 - Benzoflavone 3 amioyl 4 methoxy, 4267¹
- C₂₃H₁₇N Methyl, (1 naphthyl)phenyl(p phenyl phenyl), 5629¹
- C₂₃H₁₇ClO₂ 2 Naphthol 1 (m chloro α (2 methoxy 1 naphthyl)benzyl), 1825¹
- C₂₃H₁₇N Anthracene 1,4 dimethyl 9,10 di phenyl 2093¹
9,9 Bisfluorene 9,9 dimethyl 3084¹
Compd, m 166.7°, from the Li deriv of 3 phenylindene and PhClBr 1517¹
Indene 1 benzohydryl 2 phenyl 1517¹
Naphthalene 1,4 dihydro 1,2,3 tri phenyl 4256¹
- C₂₃H₁₇ClN₂O₂ Benzidine N V bis(chlorovanilla) 945¹
- C₂₃H₁₇Cl₂O₂ [3,3 Bi Δ¹ 1,2 cyclohexenedi carbonyl chloride] 6,6 diphenyl 1514¹
- C₂₃H₁₇N₂ Pyridazine 4,5 dihydro 4,4,5,5 tetraphenyl 4254¹
Quinaldine 4 amino α 3 diphenyl and HCl 2431¹
- C₂₃H₁₇O 9(10) Phenanthrene 10,10 di p tolyl 4878¹
- C₂₃H₁₇O₂ Ketone p amyl 9 p amyl 9 fluoryl 4878¹
9(10) Phenanthrene 10,10 diamsyl 4878¹
- C₂₃H₁₇O₂ Anthrone 10 ethoxy 1,5 diphenoxy 2140¹
- C₂₃H₁₇O₂ [3,3 Bi Δ¹ 1,2 cyclohexenedi carboxylic anhydride] 6,6 diphenyl 1514¹
- C₂₃H₁₇NO Anthrone 10 (p dimethylammonophenyl) 2 phenyl 4546¹
- C₂₃H₁₇N₂O₂ [1,4¹ Bisobenzofuran] 2,1 (1,2) dione 2 (2,5 d methoxy 4 nitrophenyl) 3,4,5,6 tetramethoxy 3,6-diortho- 4519¹
- C₂₃H₁₇ Butene 1,1,4,4 tetraphenyl 3378¹
Compd m 182.4° formed by the reduction of a compd m 166.7° 1517¹
Ethylene 1,1 diphenyl 2,2 di p tolyl, 1240¹
Indan 1 benzohydryl 2 phenyl 1517¹
Naphthalene, 1,2,3,4 tetrahydro 1,2,3 triphenyl 4256¹
- C₂₃H₁₇Br₂O₂ Benzene 1,5 dimethoxy 2,4 bis (m methoxycinnamyl) dibromo deriv 1526¹
- C₂₃H₁₇Br₂O₂ Hydroquinone 2,5 dibromo 3,6 bis(4 dibromo 2 methyl) diacetate 940¹
- C₂₃H₁₇N₂O₂ Oxamide N V dibenzyl 2942¹
- C₂₃H₁₇N₂O₂ Hydrobenzoin dicarbamate 4544¹
- C₂₃H₁₇N₂O₂ Amine, p Ip [p (p amino phenoxy)phenoxy]phenoxy] di Ac de riv 1816¹
- C₂₃H₁₇N₂O₂Ti + 4H₂O, 3926¹
- C₂₃H₁₇N O₂ Piperonal 6 α tolyl bis(phenyl hydrazone) 297¹
- C₂₃H₁₇N₂O₂ Crocbonnamide, N antipryl 6 methoxy 2 phenyl 4883¹
- C₂₃H₁₇O Carbinol diphenyl(3 phenyl 1 indanyl), 1517¹
- C₂₃H₁₇O₂ Compd m 165° from benzophenacol ac and AcCl 4254¹
1 thylene 1,1 di p amyl 2,2 d phenyl, 942 1240¹
9 Fluorenecarbinol 9 hydroxy α α di p tolyl 4878¹
Mentol α¹ α² d phenyl benzoate 7635¹
Propionic acid α,β β β tetraphenyl (?) Me ester 4254¹
- C₂₃H₁₇O₂ Fluorenecarbinol α α diamsyl 9 hydroxy 4878¹
- C₂₃H₁₇O₂ Galactose Δ¹ emde 2,3,4 tri benzoyl β methyl 5149¹
- C₂₃H₁₇O₂ Penilamin HCl 3907¹
- C₂₃H₁₇ClO₂ Penilamin HCl 3997¹
- C₂₃H₁₇O₂ Galactoside β methyl tribenzoate 5149¹
- C₂₃H₁₇NO 2 Butanone 4 aniline 1,3,4 tri phenyl 3641¹
- C₂₃H₁₇NO Ethanol¹ benzylamino 1,2 di phenyl Br deriv 1819¹
- C₂₃H₁₇Br₂O₂ Quinone 2,5 bis(3 bromo 2 methyl) 3,6 dihydroxy diacetate 3640¹
- C₂₃H₁₇Br₂O₂ Hydroquinone 2,5 dibromo 3,6 bis(4 bromo 2 methyl) diacetate 940¹
- C₂₃H₁₇CuI₂N₂O₂ + 4H₂O Diphenylodonium cupriuret 20¹
- C₂₃H₁₇I₂N₂O₂ Diphenylodonium mckelbiuret 20¹
- C₂₃H₁₇N₂ Benzamidine N V A tri p tolyl 697¹
- C₂₃H₁₇O₂ Xylenesulfonic acid 2 hydroxy 5 (phenylsulfamyl) timol cyclic sulfonylhyd 691¹
- C₂₃H₁₇N₂ Biacetyl diphenylsazone 1488¹
- C₂₃H₁₇N₂O Anisidehyde 2 α tolyl bis (phenylhydrazine) 297¹
- C₂₃H₁₇N₂O₂ Compd decomps 258° from bis-cyclopentadienequinone and PhN₂ 1507¹
- C₂₃H₁₇O 1 Butanol 1,1,4,4 tetraphenyl 3329¹
Lithanol 2,2 diphenyl 1,1 di p tolyl 1240¹
Ether, bis(α β d phenylethyl) 505¹
- C₂₃H₁₇O₂ Ethane 1,2 dimethoxy 1,1,2,2 tetraphenyl 942¹
Ethanol 2 ethoxy 1,1,2,2 tetraphenyl 943¹
- C₂₃H₁₇O 5 Ethyl mercaptan α α di p amyl β β diphenyl 1240¹
- C₂₃H₁₇O₂ Ethanol di p amylidiphenyl 942¹ 1240¹
- C₂₃H₁₇O₂ Benzene 1,5 dimethoxy 2,4 bis (m methoxycinnamyl) 1526¹
- C₂₃H₁₇O₂ [3,3 Bi Δ¹ 1,2 cyclohexenedi carboxylic acid] 6,6 diphenyl 1514¹
- C₂₃H₁₇O₂ Galactoside, β methyl tribenzoate 5148¹
- C₂₃H₁₇O₂ Chrysazin, 2 acetogalactosyl 3992¹
- C₂₃H₁₇BrCuN₂ Deuteroctoporphyrin bromo-, Cu salt, 111¹
- C₂₃H₁₇Cl₂O 3 Orabicyclo[3,3,1]nonan 9 one, 1 (α chlorobenzyl) 5 methyl 2,4 diphenyl, 4233¹
- C₂₃H₁₇NO Anthraquinone, 1 amino 2 aceto glucosyl, 4282¹
Anthraquinone 9 monomethyl, 1 hydroxy 8-acetoglucosyl 4261¹
- C₂₃H₁₇N₂ Acetophenone, α (N methylamino) benzylphenylhydrazine, 4533¹

- naphthopyran] 2' (and 3) phenethyl 45.0¹
- C₁₂H₁₀O₂ Clutaraldehyde, β -keto α, α, γ tetraphenyl, 4254¹
- C₁₂H₁₀CuN₂O₂ Tripyridinocupric o nitrobenzoate, 482²
- C₁₁H₁₁N₃ 4-Methyl 3 (4 methyl 3(4) 5,6-benzoquinolinium iodide, 476²
- C₁₂H₁₁N Acridan, 5 (1 naphthyl) compd with C₁₁H₁₁ 297²
- C₁₂H₁₁N₂O₂ Phenanthrenequinone 2 nitro- (α β di β tolylguanyl)hydrazone 101¹
- C₁₂H₁₁N₂O₂ Phenanthrenequinone 2,7 di nitro-, (α β di β tolylguanyl)hydrazone oxime 101¹
- C₁₂H₁₁ Anthracene 9 benzal 9,10 dihydro- 1,4 dimethyl 10-phenyl 299²
- Anthracene (enzylidimethylphenyl, 3646¹ 4547²
- C₁₂H₁₁N₂O 2 1-yrrolidinonitrile 5 hydroxy 1 2 3 5-tetraphenyl 7) 399²
- C₁₂H₁₁N₂O Phenanthrenequinone, (α β di β tolylguanyl)hydrazone 101¹
- C₁₂H₁₁N₂O Phenanthrenequinone, 2 nitro- (α β di β tolylguanyl)hydrazone oxime 101¹
- C₁₂H₁₁O₂ p Dioxin, 2,3 dihydro 2 methoxy 2 3 5 6 tetraphenyl 100²
- C₁₂H₁₁N₂O₂ Butanone 4 amino 4 (3,4 methylendioxyphenyl) 1 3 diphenyl 3641¹
- C₁₂H₁₁N₂O Phenanthrenequinone (α β di β tolylguanyl)hydrazone oxime 101¹
- C₁₂H₁₁N₂ Hydrazine α isopropylidene β -tetraphenylethyldene- 94²
- C₁₂H₁₁N₂O₂ Pyruvaldehyde 1,4 4 diphenyl semicarbazone 918¹
- C₁₂H₁₁O₂ 2 Propanol 1 1 2 3 tetraphenyl acetate 4255²
- Propionic acid α β , β β tetraphenyl (?) Et ester 4254²
- C₁₂H₁₁NO₂ 2 Butanone 4 amino 4 β amino 1 3 diphenyl 3641¹
- C₁₂H₁₁N₂O₂ 2 Naphthosic acid 4,4 ureidodi methylenes[3 hydroxy di Et ester 5400¹
- C₁₂H₁₁O Ether methyl α α β β tetraphenyl butyl, 1236¹
- C₁₂H₁₁O₂ 1 Butanol 4 methoxy 1,1 4 4 tetraphenyl 1236¹
- C₁₂H₁₁O₂ Rotenone compd with benzene 4249²
- C₁₂H₁₁O₂ Anthraquinone 1 methoxy 8 acetoglucoxy 3992²
- C₁₂H₁₁O₂ Gyrophoric acid Me ester tetra Me ether 2136¹
- C₁₂H₁₁N₂O₂ Compd from desoxyquinone and hydrocinamic acid 5429¹
- C₁₂H₁₁N₂O₂Se 2 5 Selenophenedicarboxylic acid tetrahydro- brucine salt 4263¹
- C₁₂H₁₁N₂O₂ Galactose pentaacetate benzyl phenylhydrazones 5402¹
- C₁₂H₁₁O₂ Glucoside 2,3,4 trimethyl β triphenylmethyl- α -methyl 5430¹
- C₁₂H₁₁N₂O₂ Butyric acid α formamido γ methylmercapto- brucine salt, 5396¹
- C₁₂H₁₁O₂ Lactone m 277² from anhydro-pyruquinovic acid 5146²
- C₁₂H₁₁O₂ Compd, m 283², from anhydro-pyruquinovic acid 5146²
- Sprio[cyclohexane 1 2 iodan] - 2 5-dione, methylenes[hexahydro-, 3335¹
- C₁₂H₁₁O₂ Acid, m 302² (decomp) from anhydro-pyruquinovic acid, 5146²
- C₁₂H₁₁N₂O₂ 2 1-yrrolidocarboxylic acid 5 15 (5 carboxy 3 ethyl 4 methyl 4 pyrrolimethyl 3 ethyl 4 methyl 2 pyrrolimethyl 4 ethyl 7 methyl di Et ester 4009
- C₁₂H₁₁O₂ Compd from anhydro-pyruquinovic acid, 5146²
- C₁₂H₁₁O₂ Azafin Me ester 3 2
- C₁₂H₁₁O₂ Compd m 311² from anhydro-pyruquinovic acid 5146²
- C₁₂H₁₁O₂ Cellobioside heptaacetate 1479² 30²
- Cellobioside hepta (isopropyl 1479²
- C₁₂H₁₁BrO₂ Anhydro-pyruquinovic acid 1 r mo 5146²
- C₁₂H₁₁N₂O₂ γ prasterol aliphanyte 101¹
- C₁₂H₁₁O₂ Anhydro-pyruquinovic acid 148²
- 1-yrrolid acetate 1489² 57²
- Isogosterol acetate 1436¹
- Lactone m 00 from anhydro-pyruquinovic acid 5146
- C₁₂H₁₁ClO₂ Compd m 121 fr m chol sterol and ch oval or C₁₂CCO-11 1 38
- Compd m 140² from cholesterol and chloral or C₁₂CCO-11 1 56¹
- C₁₂H₁₁O₂ 1-yrrolid dihydro acetate, 1836¹ 51²
- Photodehydrogosterol tetrahydro acetate 301¹
- C₁₂H₁₁O₂ 1-yrrolidinoic acid 5146²
- C₁₂H₁₁O₂ β Cholelanic acid penta Me ester 3662
- C₁₂H₁₁ClO₂ 1-yrrolid chloroacetate 2733¹
- C₁₂H₁₁O₂ 1-yrrolid acetate 1737²
- Isogosterol acetate 125²
- Typhasterol acetate, 172²
- C₁₂H₁₁ClN₂FeS₂ 4194
- C₁₂H₁₁O₂ Cholic acid compd with Am alc 521¹
- C₁₂H₁₁O₂ Malonic acid, Δ^1 docosenyl di Et ester 113²
- C₁₂H₁₁O₂ Cellotrioxide decamethyl β methyl 85² 3829
- C₁₂H₁₁NO₂ Sebaccamic acid N heptadecyl Et ester 497²
- C₁₂H₁₁O₂ Acid m 83 0² from isopropyl 89¹
- C₁₂H₁₁Nonacosane 1134¹
- C₁₂H₁₁O₂ Chryso[3 2 β 9 8 β]anthraquinone-6 9 15 18 tetrone 5167¹
- C₁₂H₁₁O₂ Anthraquinone hexahydroxy 97¹
- C₁₂H₁₁O₂ See Pyranthrene
- C₁₂H₁₁O₂ [1 1 B anthraquinone] 4 4 di carboxylic acid 7641
- C₁₂H₁₁ClO₂ Benzene-tricarboxyl chloride tri benzyl 97¹
- C₁₂H₁₁N₂O₂ Compd decomps 265², from pyromellitic anhydride and quinaldine 1821¹
- 1 8 9 10 Phenanthrenetetracarboximide, γ N diphenyl 3337¹
- Phthalimide γ γ β 10 Phenanthrylene bis- 3343
- Pyromellitimide N, N' di 1 naphthyl, 1821¹
- C₁₂H₁₁N₂O₂ 2 Anthraldehyde, 1 [(1 amino 2 anthraquinonyl)methyleneamino] 9,10-dihydro-9 10-4 keto-, 947¹
- C₁₂H₁₁O₂ 7,14 Naphthodianthrene-dione, di methoxy, 1519¹
- C₁₂H₁₁O₂ 2 Thionaphthene-carboxylic acid

- 1 1 (1 5 naphthylenedicarbonyl)bis-5167⁹
- C₂₀H Cl₂NO Anthraquinone 2 2 (α amino β hydroxyethylene)bis(4 chloro 3 hydroxy 124⁹)
- C₂₀H₂ Benzo[δ]naphtho[1 2 λ]chrysene 2717⁸
- C₂₀H₂NO₂ Anthraquinone 2 2 vinylenedi-thiois[1 amino 2724⁸
- C₂₀H₁₀N₂O₂ 2 Antipralsdehyde 1 amino 9 10-dihydro-9 10-d keto- amine 94⁸
- C₂₀H₂N₂O₂ 3 3 Biquinolone dipicrate 5427⁹
- C₂₀H₂O₂ Helianthrone 1 6 dimethoxy 1519⁸
- C₂₀H₂O₂ Benzo[β]thiophanthrene 6 11 diol dibenzoate 1665⁸
- C₂₀H₂O₂ Helianthrone 1 6 dihydroxy 2 α dimethoxy 1520⁸
- C₂₀H₂O₂ Benzenetricarboxylic acid tribenzoyl 9⁸
- C₂₀H₁₀NO₂ Alizarin 3 3 (α amino β hydroxyethylene)bis 1242⁹
- C₂₀H₂Cl₂O₂ 1 4 Naphthalenediol 2 3 di-chloro 1 4 dihydro 1 4 di 1 naphthyl 4039⁸
- C₂₀H₂CuN₂O₂ Furazan 3 benzamido 4 phenyl Cu deriv 3673⁸
- C₂₀H₂K₂O₂Zn 2012O 3926⁸
- C₂₀H₂N₂O₂ Naphthacenequinone 1 4 dianilino-162⁸
- C₂₀H₂N₂O₂ Pothalamic acid \ Y 9 10 phenanthrylcebis and di \ a salt 3343⁸
- C₂₀H₂N₂O₂ 1 3(2 4) Isoquinolinedione 4 4 biphenylenedisazobis 3849⁸
- C₂₀H₂O₂ (Δ) Bactenaphthene 8 8 dione 2 3-dipropionyl 5674⁸
- Δ¹⁰ Banthrone d methoxy 1019⁸
- Ethylene tetrabenzoate 3846⁸
- C₂₀H₂O₂ 6 13 Pentacenedione α 7 12 14 tetrahydroxy tetraacetate 1118⁸
- C₂₀H₂BrO₂ 10 10 Banthrone 10 bromo 3 3-dimethyl 4449⁸
- C₂₀H₂N Trianthrylamine P 209⁸
- C₂₀H₂Br₂N₂O Phenol β 1 naphthylazo compd with Br₂Br 3322¹
- C₂₀H₂Cl₂O₂ 4² 1 4 Cyclohexanediol 2 α dichloro 1 3 4 6 tetraphenyl 4039⁸
- C₂₀H₂N₂O₂ Benzo[β]thiophanthrene 6 11 dione - 10-di p tolueno- 5169⁸
- C₂₀H₂N₂O₂ Anthraquinone 1 4 dibenzamido 5 8-dimethoxy 3648⁸
- C₂₀H₂N₂O₂ Benzo[β]thiophanthrene 6 11 dione 7 10 di p tolueno- trisulfo deriv \ a salt 1665⁸
- C₂₀H₂N₂O₂ 4(3) Quinazolone 2 2 dithio-bis[3-o-tolyl 3602⁸
- C₂₀H₂O₂ Naphthalene, 1 benzoyl 2 6 di-methyl α-(1 naphthyl) 2717⁸
- C₂₀H₂O₂ 10 10 Banthrone dimethoxy 1018⁸
- C₂₀H₂O₂ 10 10 Banthrone dihydroxy dimethoxy 1019⁸ 10 10⁸
- C₂₀H₂O₂ Phylloleucin dibenzoate 3870⁸
- C₂₀H₂NO₂ Ketone β anisyl 4 α dihydro 3 hydroxy 3 4 diphenyl 3 isocazoyl benzoate 103⁸
- C₂₀H₂N₂O Naphthalene, 1 4-d benzyl, picrate, 1515⁸
- C₂₀H₂Iodene 3 phenyl d mer 101⁸
- C₂₀H₂AgCl₂N₂O₂ Tris α α dipyridylargentate chlorate 1753⁸
- C₂₀H₂AgCl₂N₂O₂ Tris α α dipyridylargentate perchlorate, 1750⁸
- C₂₀H₂AgN₂O₂ Tris α α dipyridylargentate nitrate 1750⁸
- C₂₀H₂As₂I₂N₂ Phenazazine 1 6 dihydro 1 vodo compd with benzene, 109⁸
- C₂₀H₂Br₂N₂Ni 6H₂O 5633⁸
- C₂₀H₂Cl₂N₂Ni 6H₂O 5634⁸
- C₂₀H₂I₂N₂Ni 6H₂O 5634⁸
- C₂₀H₂N₂ Ketone 4 benzyl 1 naphthyl phenyl phenylhydrazono, 1010⁸
- C₂₀H₂N₂O₂ Pseudo indole, 3 3 dibenzyl 2 (m nitroethyl), and tetrahydrochloride 1420⁸
- Pseudo indolealdehyde, 3 3 dibenzyl, osime Br deriv 1420⁸
- C₂₀H₂N₂ Azophenone 2224⁸
- 1 Naphthaldehyde 6 (p formylphenyl), bis(phenylhydrazono), 4090⁸
- C₂₀H₂N₂NiO₂ 6H₂O 5634⁸
- C₂₀H₂O₂ 9 Anthrol 10 ethoxy 1 α di-phenoxy acetate 2140⁸
- C₂₀H₂O₂ Compd m 23 α α from maleic anhydride and (PhCH CHCH CHCH) 1014⁸
- Compd m 23 α α from maleic anhydride and (PhCH CHCH CHCH) 1014⁸
- C₂₀H₂O₂ Leucothelaphoric acid, pentaacetyl, 291⁸
- C₂₀H₂S Thiophene dibenzohydryl, 2719⁸
- C₂₀H₂AN₂ 3 (4 Etly) 3(4) 5 6 benzo-quinolylidenemethyl) 4 methyl 5 6 benzoquinolylidenemethyl (?) 4269⁸
- 4 Etlyl 3 (4 methyl 3(4) α 6 benzo-quinolylidenemethyl) 5 6 benzoquinolylidenemethyl (?) 4269⁸
- C₂₀H₂N Pseudoundole 3 3 dibenzyl 2 styryl and HCl 5425⁸
- C₂₀H₂ 9 9 Bifluorene 9 9 diethyl 3984⁸
- 1 α Hexadene 1 1 6,6 tetraphenyl 1230 3328⁸
- C₂₀H₂Br₂Cl₂N₂O₂ Phenol β phenylazo, compd with BrCH₂COCl 3321⁸
- C₂₀H₂Br₂O₂ Resorcinol 4 6 bis(β m anisyl α 8 dibromoprop onyl) d acetate 1526⁸
- C₂₀H₂Cl₂N₂O₂ Ansanide 3 3* (β β dichloro ethylidene)bis 5412⁸
- C₂₀H₂CuN₂ 4 Isopyrrolenitrile 2 (4 cyano-3 α dimethyl 2 pyrrolimethylene) 3 5-dimethyl Co complex 698⁸
- C₂₀H₂CuN₂ 4 Isopyrrolenitrile 2 (4 cyano-3 5-dimethyl 2 pyrrolimethylene) 3 5-dimethyl Cu complex 698⁸
- C₂₀H₂N₂O₂ 8 Indole[3 2 1] telacridin 8 one 6-amino- hydroxyethylidenecarboxiphor de riv 2988⁸
- C₂₀H₂N₂O₂ Phenol 2 benzamido 4 (\ isopropylbenzamido) benzoate 2984⁸
- C₂₀H₂N₂O₂ Anthraquinone 1 4 dimethoxy α 8-bis(p tolylsulfonamido), 3648⁸
- C₂₀H₂N₂O₂ Capraic acid phenylhydrazono, 238⁸
- C₂₀H₂N₂O₂ Benzil bis(α tolylhydrazono) 1821⁸
- C₂₀H₂O Cyclohexanone 3 4 4 α tetraphenyl, 1240⁸
- C₂₀H₂O₂ Butine 1 4 dimethoxy 1 1 4, 4 tetraphenyl 1236⁸
- C₂₀H₂Br₂N₂ Pyrazolone 3 (β β diphenyliso-propyl) 1 α diphenyl, bromo deriv, 1425⁸
- C₂₀H₂FeN₂O₂ 3 365⁸
- C₂₀H₂N₂ Pyrazolone 3 (β β d phenyliso-propyl) 1 5-diphenyl, 1424⁸, 1425⁸

- $C_{21}H_{19}N_2O_2$ Deuterorhodin 4279¹
 $C_{21}H_{22}O_4$ *p*-Dioxane, 2,5 dimethoxy 2,3,5 *t*-tetraphenyl, 100²
 Bitylene, tetra *p* amyl 1239²
 $C_{21}H_{22}S_2$ Ketene di *p* tolyl di *p* tolyl mer captole, 931¹
 $C_{21}H_{22}S_2$ Lihylene sulfoxide, α α di *p* tolyl di *p* bis(*p* tolylmercapto) 931¹
 $C_{21}H_{22}N$ Pseudonidole 3,3 di(benzylidihydro 2 phenethyl, and salts, 5425¹
 $C_{21}H_{22}NO_7$ Azlactone m 2 α 2² from 6 ethyl 2 (4-ethyl 5 formyl 2 methoxy phenoxy)veratraldehyde and hippuric acid, 2984¹
 $C_{21}H_{21}NO_4$ Glucosyl 6 amine acetone tri benzoyl 2121¹
 Idosyl 6 amine acetone tri benzoyl 2121¹
 $C_{21}H_{21}NO_4$ Anthraquinone 9 ammonium salt hydrate 1 acetoxy 2 acetoglucoxy, 4261¹
 $C_{21}H_{20}$ α Dibenzanthracene " 14 dibutyl, 2716¹
 $C_{21}H_{20}CuI_2N_4$ Hexapyridinocupric iodide 682²
 $C_{21}H_{20}N_2$ 3 Pentanone 2 benzyl 1,5 di benzyl phenylhydrazones 542²
 $C_{21}H_{20}N_2$ Diacetyl benzylphenylazone 1488¹
 $C_{21}H_{20}N_2O_4$ Deuteroporphyryn 3351¹
 $C_{21}H_{20}O_2$ Butane 1,4 dimethoxy 1,1,4,4 tetraphenyl 1236¹
 $C_{21}H_{20}O_2$ Ether bis(α α di *p* phenyl ethyl) 302¹
 $C_{21}H_{20}O_2$ Anisole *p*,*p*,*p* *p* acetylenetetra kis-, 942¹
 $C_{21}H_{20}O_2$ Di *o* di *o* bis(*p* *p* 4 methoxybenzyl) 1239¹
 $C_{21}H_{20}O_4$ Anthraquinone 1,4(8) dimethoxy 2 acetoglucoxy 3992¹
 $C_{21}H_{20}S_2$ Disulfide bis(β β diphenylisopropyl) 942¹
 $C_{21}H_{18}ClFeN_4$ Pyrroetoporphyrin FeCl₂ deriv 112¹
 $C_{21}H_{18}CuN_4$ Pyrroetoporphyrin Cu salt 112¹
 $C_{21}H_{18}N_4$ Amine *p* *p* (5 diphenylethylene)bis (N V-dimethyl) 123²
 $C_{21}H_{18}O_2$ 7,14 α Dibenzanthracenediol 7,14-dibutyl 7,14 dihydro-, 2716¹
 $C_{21}H_{18}BrN_4$ Pyrroetoporphyrin bromo- 112¹
 $C_{21}H_{18}N_2O_2$ Camphor " 1,4 naphthylene bis[3-imino-, 98¹
 $C_{21}H_{18}N_4$ Pyrroetoporphyrin 112¹
 $C_{21}H_{18}N_2O_2$ Alanine N (m anisobenzoyl) quinone salt 2118¹
 $C_{21}H_{18}O_8$ See *Picroloxin*
 $C_{21}H_{18}ClN_2O_2$ Rhodamine 3B perchlorate 1,13¹
 $C_{21}H_{18}N_2O_2$ 2 Propanol 1,3 bis(diethyl amino) dipicrate benzoate 539²
 $C_{21}H_{18}N_2O_4$ Mesoxalic acid di *l* ester N N *p* phenylmethyl(N ethylhydrazones) 917¹
 $C_{21}H_{18}N_2O_4$ Dipicrate m 137² of compd b-1, 141-5² 3009²
 $C_{21}H_{18}N_2O_4P$ 1 Butanephosphonic acid 4 phenyl quinone salt 4239¹
 $C_{21}H_{18}N_2O_5S$ Camphorsulfonic acid quinone salt 3322¹
 $C_{21}H_{18}O_4$ Acid m 244² (decompn) from triacetylquinovic acid 5146¹
 $C_{21}H_{18}O_8$ Cellulose nonaacetate hydrate, 3318¹
 $C_{21}H_{18}N_2O_5S_2$ See *Simalin*
 $C_{21}H_{18}N_2O_{14}$ Cellulose phenylsazone 4190¹
 $C_{21}H_{18}O_4$ Me ester m 245² of acid from an hydroquinovic acid 5146¹
 $C_{21}H_{18}O_4$ Ac₂ m 275² (decompn) from tri acetylquinovic acid 5146¹
 $C_{21}H_{18}BrO_4$ Oxyallobetulinic acid bromo 291¹
 $C_{21}H_{18}ClO_4$ Nonyl chloride 5146¹
 $C_{21}H_{18}O_4$ Anhydroquinovic acid 5146¹
 Azalrin 1 ester 135¹
 Nonyl acid 5146¹
 $C_{21}H_{18}O_4$ Compd m 310 from anhydro quinovic acid 5146¹
 $C_{21}H_{18}O_4$ Cymarin 2768¹
 $C_{21}H_{18}O_4$ Cellulose heptaacetylbutyl 1499¹
 Cellulose heptaacetyl sec butyl 1499¹
 heptaacetylbutyl 1499¹
 $C_{21}H_{18}NO_4$ Chloro acyl compd with Ph\O₂ 521¹
 $C_{21}H_{18}N_2O_2$ Piperazinebis(methylenecamphor 2,3 α 6 tetramethyl, 427²
 $C_{21}H_{18}O_4$ Anhydroproquinovic acid Me ester 5146¹
 Apodyallobetulinol 291¹
 Dehydrouranic acid 5668¹
 $C_{21}H_{18}O_4$ Oxyallobetulinol 291¹
 $C_{21}H_{18}O_4$ Quinovic acid 5146¹
 $C_{21}H_{18}O_4$ See *Quasarin*
 $C_{21}H_{18}NO_4$ Oxyallobetulinol oxime 291¹
 $C_{21}H_{18}NO_4$ Lohic acid compd with Ph\O₂ 521¹
 $C_{21}H_{18}$ Amyylene 2990¹
 $C_{21}H_{18}BrO_4$ Elemolic acid dibromide 4502²
 $C_{21}H_{18}O$ Apodyallobetulinol 291¹
 $C_{21}H_{18}O_2$ Hygroterol acetate 3771¹
 Uronic acid 5668¹
 $C_{21}H_{18}O_2$ (See also *Elemolic acid*)
 Guagenin 2472² 4503²
 Ursolic acid 2151² 5668¹
 $C_{21}H_{18}$ (See also *Squalene*)
 Amyrene 2990¹
 2,6,10,14,18,22 Tetracosabacene 2,6,10,14,18,22 hexamethyl 1795¹
 $C_{21}H_{18}N_2$ Amyrene hydrazones 2989¹
 $C_{21}H_{18}O$ Amyrin 2991¹
 $C_{21}H_{18}O_2$ Acetate m 260-5² of alc m 245-55² 1633¹
 Allobetulinol 291¹
 Hederabetylulol 5172¹
 $C_{21}H_{18}O_2$ Elemolic acid dihydro 4,52²
 $C_{21}H_{18}O_2$ Hydroquinone 2 α -diaryls 5670²
 $C_{21}H_{18}O_2$ Triazain 1637¹
 $C_{21}H_{18}BO_2$ Borate 4251¹
 $C_{21}H_{18}Cl_2P_2Pt$ (*p* lithylphenyl)methylpropyl phosphonium chloroplatinate 283¹
 Methylpropyl 2,5 xyllylphosphonium chloroplatinate 2702¹
 $C_{21}H_{18}N_2O_2$ Oleamide *p* (β diethylaminoethoxy) P 2436¹
 $C_{21}H_{18}O_2$ Hederabetylulol dihydro- 5172¹
 $C_{21}H_{18}ClO_2$ Aglicone m 208-10², from pamarin 3439¹
 $C_{21}H_{18}$ Triacotane 485¹ 3921¹ 4773¹
 $C_{21}H_{18}N_2O_2$ Chupene 353¹
 $C_{21}H_{18}O$ Alc m 68² from sapropel 89¹
 $C_{21}H_{18}O_2$ Tenhydroglycol 3403¹
 $C_{21}H_{18}Cl_2N_2O_2Pt$ Choline decyl chloroplatinate 2315¹
 $C_{21}H_{18}Cd_2Cr_2N_2S_3$ 3922¹
 $C_{21}H_{18}N_2O_2$ Malonamide, V, N di 2 anthraquinonyl, 947¹
 $C_{21}H_{18}N_2O_2S_2$ 8 Indole[3,2,1-*b*,4]acridin-8-one 6 bis(phenylsulfonyl)amino 2998¹
 $C_{21}H_{18}N_2O_2$ Urea *s* bis(2 hydroxy 1 anthraquinonylmethyl), 1242¹

- C₂₇H₄₄O₉ Corchorin acetyl 3607
 C₂₈H₄₄O₁₂ Celluloside heptaacetylethyl 1499
 C₂₈H₄₄NO₂ See 1 *estrone*
 C₂₈H₄₄N₂O₃ 3 Hydantoinacetic acid cholesteryl ester 4728
 C₂₈H₄₄O₁₀ Eleostolic acid acetate 4529
 Guagenin Ac deriv 2132
 Isosolic acid acetate 2109
 C₂₈H₄₄O₁₀ Eleostolic acid Me ester 3172
 C₂₈H₄₄Cl₂O₂Pt₂ p An 5-yl butylmethyl phosphomum chloroplatinate 963
 C₂₈H₄₄O₁₁ 1 1 Cyclodotracostanedione 922
 C₂₈H₄₄O₁₂ Palmitic acid α α dithiobis 982
 C₂₈H₄₄O₁₂ Acetate m 31° of alc m 68° 891
 Dotracostanic acid Ph salt 21
 C₂₈H₄₄O₁₂ Cocern 6001
 C₂₈H₄₄ Dotracostane 7040 3661
 C₂₈H₄₄AsCl₂Br₂ Triam(methyl)arsomum chloroplatinate 1483
 C₂₈H₄₄NO₁₂W₂ Choline acetyl α methyl succinylate 63
 C₂₈H₄₄N₂O₁₂ 2 Anthranquinonecarboxylic acid 4,4 bis(2,2,2-trifluoroethyl)oxy 1242
 C₂₈H₄₄N₂O₁₂ Urea 3 bis 2 phenyl 4 quinolyl carbonyl 4853
 C₂₈H₄₄O₁₂ Benzeneacetic acid triphenyl Me ester 94
 C₂₈H₄₄S₂ 2 Naphthyl ketone di Ph mercaptol 2133
 C₂₈H₄₄NO₁₂ Benzopentacene oxime Et deriv 942
 C₂₈H₄₄N₂O₁₂ Anthrone 14 (1 methyl)lactone 1 d phenoxy 2140
 C₂₈H₄₄N₂ Carbazole benzaldehyde methyl 2992
 Imidazole 2 3 4 5 6 1 2 3 4 5 penta phenyl and deriv 1373
 C₂₈H₄₄N₂ Compd from PhCH₂NHPh HCl ZnCl 3974
 C₂₈H₄₄N₂O₁₂ Urea 3 bis 6 methoxy 2 phenyl 4 quinolyl 4884
 C₂₈H₄₄O₁₂ Ethanol 1 1 2 2 tetraphenyl benzoate 1240
 C₂₈H₄₄NO₁₂ Ethanol 1 1 2 2 tetraphenyl carbamate 1240
 C₂₈H₄₄N₂O₁₂ Benzaldehyde dihydrazine with α α p nitrobenzyl p phenylene b hydrazine 150
 C₂₈H₄₄N₂O₁₂ Benzaldehyde dihydrazine with α α salicylald p phenylene b hydrazine 1007
 C₂₈H₄₄N₂O₁₂ Salicylald p dihydrazine with bis(2,2,2-trifluoroethyl)hydrazine 4862
 Salicylald p benzaldehyde bis(phenyl hydrazine) 4862
 C₂₈H₄₄N₂O₁₂ Salicylald p dihydrazine with α α salicylald p phenylene b hydrazine 150
 C₂₈H₄₄O₁₂ 2 Propanol, pentaphenyl, 4°54 424
 C₂₈H₄₄O₁₂ 1 3 Propanediol 1 1 2 3 3 penta phenyl 941
 C₂₈H₄₄O₁₂ Pentaerythritol tetrabenzoate 1801
 C₂₈H₄₄ Compd 1 2 233 from compd m 194-2°, 2985
 C₂₈H₄₄N₂ D phenylamine, p p benzaldehyde methyl 2924
 C₂₈H₄₄Cl₂N₂O₁₂ Nicotinic acid 2 (2 carboxy 6-chlorophenyl) amine salt 1061
 C₂₈H₄₄O₁₂ Alcohol 1 2 10°, from compd m 193-9°, 2985
 C₂₈H₄₄O₁₂ Salicylic acid 6 O triphenylmethyl β glucoside, Me ester 3677
 C₂₈H₄₄O₁₂ Genistin hexaacetyl, 3675
 C₂₈H₄₄N₂O₁₂ Phylloerythrin 3303, 5847 and K salt 1833
 Pseudophylloerythrin, 1833, 2353
 C₂₈H₄₄N₂O₁₂ Chlorin 3 3659
 C₂₈H₄₄N₂O₁₂ Chlorophyllin a, 3303
 C₂₈H₄₄N₂O₁₂ Porphyria 3353
 C₂₈H₄₄O₁₂ Compd m 198 9°, from di Me carboxyphenylate and PhMgBr, 2968
 C₂₈H₄₄O₁₂ Carbonic acid, p thymoxylphenyl ester P 2814
 C₂₈H₄₄N₂O₁₂ Phylloerythrin, oxime 1835, 3302
 Pseudophylloerythrin oxime, 1835
 C₂₈H₄₄N₂O₁₂ (See also Ergosterol)
 Chlorophyllin a, oxime, 3353
 C₂₈H₄₄CuN₂O₁₂ Pyrochlorin c Me ester Cu deriv, 1256
 C₂₈H₄₄N₂O₁₂ Desoxyphylloerythrin, 1833, 3331
 Isophosphorylerythrin a 3353
 C₂₈H₄₄N₂O₁₂ See Salivaria
 C₂₈H₄₄N₂O₁₂ Alanine V (m nitrobenzoyl), bromine salt 2118
 C₂₈H₄₄N₂O₁₂ Phylloerythrin, hydrazine 1835
 C₂₈H₄₄N₂O₁₂ Camphor p p methylenebis(3 phenyl)amino 98
 C₂₈H₄₄N₂O₁₂ Porphin 6 propionic acid 1 2 5 6 7 pentamethyl 2 3 d ethyl, Me ester, 1835
 Pyrochlorin c Me ester, 1256
 C₂₈H₄₄Cr₂N₂O₁₂ + 10H₂O Guanid α α (α methyl)erythrin Cr oxalate salt, 4534
 C₂₈H₄₄N₂O₁₂ Chlorin f Me ester 1256
 C₂₈H₄₄N₂O₁₂ Mesolobrin 1836
 C₂₈H₄₄N₂O₁₂ P 1 Butanephosphonic acid, 4 phenyl bromine salt 4239
 C₂₈H₄₄N₂O₁₂ Camphor p p methylenebis(3 amino) 98
 C₂₈H₄₄N₂O₁₂ Isopropyl 5 (4 acetyl) 3 5 dimethyl 2 pyrrylmethyl 2 (5-(4 acetyl) 3 5 dimethyl 2 pyrryl methyl) 4 ethyl 3 methyl 2 pyrryl methylene 4 ethyl 3 methyl and HBr 3356
 C₂₈H₄₄N₂O₁₂ Mesolobrinogen 1837
 C₂₈H₄₄O₁₂ Dehydroergosterol compd with maleic anhydride, acetate 4008
 C₂₈H₄₄CD₁₂O₁₂ Fthylmethylphenacylsulfonium cadmipentacetate 600
 C₂₈H₄₄Cl₂HgO₁₂ 3, Ethylmethylphenacylsulfonium bismercuribenzoate 600
 C₂₈H₄₄O₁₂ Ergosterol compd with maleic anhydride Ac deriv, 400
 C₂₈H₄₄N₂O₁₂ 1 2 Propanediol, 3 (octyl)oxyl dicarban late, 684
 C₂₈H₄₄O₁₂ Guagenin Me ester, Ac deriv, 2132
 Oleostolic acid acetate 5172
 Isosolic acid Me ester, acetate, 2152
 C₂₈H₄₄O₁₂ Phytosterol 2131 4003
 C₂₈H₄₄Br₂O₁₂ Phenolpyromellitate octabromo, 97
 C₂₈H₄₄N₂O₁₂ 2 Benzo[β]thiophanthrene 9 aldehyde 6 11 dihydro 6 11 diketone 5167
 C₂₈H₄₄O₁₂ Benzo[β]thiophanthrene 8 11 dione 8 8 vinylenebis 5166
 C₂₈H₄₄Br₂O₁₂ 3 10 Perylene dihydro, di benzoate 4574
 C₂₈H₄₄Br₂N₂ D pyrroloperylene 2,8 diphenyl, tetrabromo 282

- $C_{18}H_{14}N_2$ Dipyrrroloperylene, 2,8 diphenyl, 292⁴
- $C_{18}H_{12}N_2O_4$ Dianthrone - 1,2 - indoxyl anhydride, 948³
- $C_{18}H_{12}N_2O_4$ Perylene, 3,4 dibenzoyl, dimetro deriv., 29²⁹
- Perylene, 3,9 - dibenzoyl, 4,10 dimetro-20,4
- $C_{18}H_{12}O_4$ [3,3 Bi - 7 meso benzanthrene] 7,7 dione, 1¹⁰
- $C_{18}H_{12}BrO_4$ Perylene 3,4 dibenzoyl, bromo deriv., 29²⁹
- $C_{18}H_{12}N_2$ Aceperylone 1,2-diphenyl 292³
- $C_{18}H_{12}ClN_2O_4$ 3,9 Terylenedicarbonyl amide 2,2'-dichloro-, 292³
- $C_{18}H_{12}ClO_4$ Compd from dichloromaleyl chloride and 1 amino 4 methylanthraquinone, 4225⁴
- $C_{18}H_{12}N_2O_4$ 3 Perylenecarboxanhydride 9 (1 benzoxazolyl) (?) 29²⁴
- $C_{18}H_{12}N_2O_4$ Anthraquinone 1,5 bis(4 hydroxy 1 naphthylazo), 2716⁴
- $C_{18}H_{12}N_2O_4$ Dibenzofluoreneanthrene dimer 39,40⁴
- $C_{18}H_{12}O_4$ Di o benzene[5 14 7 12]pentacene 6 13 dione 5,7 12,14 tetrahydro 5160⁴
- Perylene, dibenzoyl 292³
- $C_{18}H_{12}N_2O_4$ Triazole m over 300⁴ of acid from ergosterol 114⁴
- $C_{18}H_{12}N_2O_4$ 3,9 Perylenedicarbonyl amide 29²
- $C_{18}H_{12}N_2O_4$ Anthraquinone, 1,5 bis(4 amino 1 naphthylazo), 2718⁴
- $C_{18}H_{12}O_4$ Di o benzene[5 14 7 12]pentacene 6 13 diol, 5,7 12,14 tetrahydro 5161⁴
- Di o benzene[5 14 7 12]pentacene 6 13 dione 5,5a,7 12 13a 14 hexahydro 5161⁴
- $C_{18}H_{12}O_4$ Benzene anhydride 5 hydroxy 2 (p hydroxyphenyl) dibenzoate 510⁴
- Phloroglucinophenone, tetrabenzoate 42,40⁴
- $C_{18}H_{12}O_4$ I besopromeliten, 9²⁴
- Pyromellitic acid, tetra Ph ester 1822⁴
- $C_{18}H_{12}Br_2S_2$ [3,4' Bathiopyran] 2,2 6 6 tetraphenyl, hexabromide 2428
- $C_{18}H_{12}ClO_4$ [3,4' Bi 1 4 pyran] 2,2 6 6 tetraphenyl dichloride 2428
- $C_{18}H_{12}Cl_2O_4$ [3,4' Bi 1 4 pyran] 2,2 6 6 tetraphenyl halo perchlorate 2428⁴
- $C_{18}H_{12}Cl_2S_2$ [3,4' Bathiopyran] 2,2 6 6 tetraphenyl, dichloride 2428
- $C_{18}H_{12}N_2$ Ethylene tetra 2 indolyl 4880⁴
- $C_{18}H_{12}O_4$ Acetonaphthone α 1 naphthyl α α -diphenyl 4879⁴
- $C_{18}H_{12}O_4$ 3,3 Spiro[4,3] 6 naphthopyran 2 phenethyl, 45,40⁴
- $C_{18}H_{12}O_4$ 3,8 Xanthenediol 9 methyl 9 phenyl, dibenzoate 3644
- $C_{18}H_{12}ClO_4$ [3,4' Bi 1 4 pyran] 2,2 6 6 tetraphenyl, mer perchlorate 2428⁴
- $C_{18}H_{12}N_2O_4$ Cinchonamide N N ethylene bis(2 phenyl) 4883⁴
- $C_{18}H_{12}N_2O_4$ 2 Naphthol 3 sulfonic acid 1 1 (dimethoxybiphenylenediazole)bis di Na salt, 2138⁴
- $C_{18}H_{12}O_4$ 1,2 Ethanediol 1,2 di 1 naphthyl 1,2 diphenyl 4879⁴
- 1,4 Naphthalenediol 1,4 dihydro 1,2 3,4 tetraphenyl, 4530⁴
- $C_{18}H_{12}O_4$ 10,10 Bi 9 anthrol d methoxy diacetate 1518⁴ 1519⁴
- 11hydroquinone, 2,5 di p toloxy, dibenzoate, 453⁴
- $C_{18}H_{12}O_4$ 10,10 Dianthrone 1,1,4 dihydroxy 2,2'-dimethoxy diacetate 15,01⁴
- $C_{18}H_{12}O_4$ Naphthol 1234⁴
- $C_{18}H_{12}ClN_2O_4$ 1 Naphthol, phenylazo, compd with $AcCl$ 33,2³
- $C_{18}H_{12}NO_4$ Anthrone 10 (p dimethylamino phenyl) 1,5 diphenoxy, 2140⁴
- $C_{18}H_{12}O_4$ 1,3,8 Nonatetrene 5 d phenylmethylene 1,9 di phenyl 121²⁹
- $C_{18}H_{12}N_2O_4$ Anhydromesochlorin 5,0⁴
- $C_{18}H_{12}N_2NiO_4$ + 6H₂O, 5635
- $C_{18}H_{12}N_2O_4$ 3, Trypan Blue 33,40⁴ 3723⁴, 4311⁴ 5927⁴
- $C_{18}H_{12}O_4$ Thiophene acetylthienanthryl, 2719⁴
- $C_{18}H_{12}N_2O_4$ 3, Iurpursulfonic acid lysine salt 101⁴
- $C_{18}H_{12}N_2O_4$ Benzaldehyde dihydrazone with α α succinyl p phenylenedihydrazine 150²⁹
- $C_{18}H_{12}N_2O_4$ Theophylline d glucoside tri benzoyl 4,78⁴
- $C_{18}H_{12}O_4$ 3,5 Nonatetrene 7 benzohydryl 9-diphenyl 1,40⁴
- $C_{18}H_{12}O_4$ Bis 3,5 monomethyl 4,4 dimethyl 4531⁴
- $C_{18}H_{12}O_4$ 3,5 Isoxanthine 5,5 oxybis[2 ethyl 3,4 biphenyl] 514⁴
- $C_{18}H_{12}N_2O_4$ 3 (uamline α α thiodiethylene) bis(dibenzoyl) P 55²⁹
- $C_{18}H_{12}O_4$ 3,3 Pentenone 1,3 diphenyl, dimer 45,40⁴
- $C_{18}H_{12}NO_4$ Anthraquinone 9 monomethyl salt, 1,5,8 trihydroxy 2 glucosyl Ac deriv 4261⁴
- $C_{18}H_{12}FeN_2O_4$ Porphin 1,3,5,8 tetramethyl 6,7 dipropionic acid 2,4 dihydroxy methyl FeCl₃ deriv 112⁴
- $C_{18}H_{12}N_2O_4$ 5,1,rimidnecarboxylic acid 1,2,3,4 (or 6) tetrahydro 4 methyl 2,6 diphenyl 1,3 di p tolyl, Et ester, 3098⁴
- $C_{18}H_{12}O_4$ Anthrone 1 acetoxy 2 acetyl glucosyl 9 diacetoxyl 4261⁴
- $C_{18}H_{12}BrCuN_2O_4$ Iorphin 1,3,5,8 tetramethylthiomethyl 6,7 dipropionic acid) di Me ester Cu deriv., 4250⁴
- $C_{18}H_{12}NO_4$ Isophthalic acid 4 methoxy 6 methyl 2 phenyl acid codeine salt 3327⁴
- $C_{18}H_{12}N_2O_4$ 3,4 Pyrroled carboxylic acid 1 (o carboxyphenyl) 2,5 dimethyl, cinchonine salt 5410⁴
- $C_{18}H_{12}ClFeN_2O_4$ Desoxyphyloerythrin, Me ester Fe complex 1835⁴
- $C_{18}H_{12}ClFeN_2O_4$ Mesoporphyrin Fe complex 1257⁴ 14
- Porphin 1,3,5,8 tetramethyl 4 ethyl 6,7 dipropionic acid) di Me ester Fe complex 4280⁴
- Pyrrohemine hydroxymethyl, 3353⁴
- $C_{18}H_{12}CuN_2O_4$ Desoxyphyloerythrin Me ester Cu complex 1835⁴
- $C_{18}H_{12}CuN_2O_4$ Mesoporphyrin, Cu complex deriv., 1257⁴
- Porphin, 1,3,5,8 tetramethylethyl 6,7 di (propionic acid), di Me ester, Cu deriv., 4280⁴
- $C_{18}H_{12}N_2O_4$ + H₂O, 3926⁴
- $C_{18}H_{12}N_2O_4$ Phyloerythrin Me ester 3352⁴
- Pseudophyloerythrin Me ester 3353⁴

- C₂₂H₂₄N₂O₄ Chloro *p*-k mono Me ester 3659^o
 C₂₂H₂₄N₂O₄ 1,4 lot ombin 4013^o
 I rphy Me ester m 167 8^o 3353^o
 C₂₂H₂₄N₂O₄ Porph n 1,4 8 tetramethyl
 brom ethyl 6^o di prop amic acid
 di Me ester 4280^o
 C₂₂H₂₄N₂O₄ 1,4 fluorithrin Me ester oxime
 1434^o
 I e dophylloerythrin Me ester oxime
 1835^o
 C₂₂H₂₄N₂O₄ Phylloerythrin semicarbazone
 1537^o
 P e lophylloerythrin semicarbazone 1835^o
 C₂₂H₂₄N₂O₄ Camphor benzoyl Me deriv
 1340^o
 C₂₂H₂₄N₂O₄ Pyroporphyrin hydroxy
 methyl Et ester trau salt 3353^o
 C₂₂H₂₄N₂O₄ Camphor λ vinylene α -
 phenylenebis(3 amino 4570^o)
 C₂₂H₂₄N₂O₄ 5 Chitosan naphthalenesulfonyl
 124^o
 C₂₂H₂₄N₂O₄ Deoxyphylloerythrin Me ester
 1814^o
 C₂₂H₂₄N₂O₄ Deuteroporphyrin di Et ester
 4280^o
 Mesoporphyrin 1256 + 1257 + 3303^o
 Porph n 1358 tetraamethyl ethyl 67
 di propionic acid di Me ester 4280^o
 Rhodoporphyrin 3333^o
 C₂₂H₂₄N₂O₄ Mesoporphyrin monooxy 320^o
 C₂₂H₂₄N₂O₄ Camphor β acetylimino bis(3
 phenylamino 98
 C₂₂H₂₄N₂O₄ Compd from dioxy mesoporphyrin
 and λ OH 570^o
 C₂₂H₂₄N₂O₄ 1 Isosybyridinium iodide, compd
 with benzalac 5320^o
 C₂₂H₂₄N₂O₄ Camphor λ 3 (ethylene) α -
 phenylenebis(3 amino 4571^o)
 C₂₂H₂₄N₂O₄ Porph n propionic acid 1358
 tetramethyl 24 d ethylpropyl 1257
 C₂₂H₂₄N₂O₄ Pyroporphyrin hydroxy methyl
 Et ester 2333^o
 C₂₂H₂₄N₂O₄ 7-oy Dibenzanthracenol 14 bu
 toxy 714 dibutyl 714 dihydro-
 2718^o
 C₂₂H₂₄N₂O₄ Camphor λ 3 (ethylene) α -
 phenylenebis(3-amino 4570^o)
 C₂₂H₂₄N₂O₄ Hemiporphyrin β β β β tetra
 kis dimethylamino 1253^o
 C₂₂H₂₄N₂O₄ Chloro f di Me ester 1506^o
 C₂₂H₂₄N₂O₄ Methane λ 3 neozanthobol rubic
 acid(methyl 1834^o)
 C₂₂H₂₄N₂O₄ Glucose, α octaacetyl β m
 phenylene, 1227^o
 C₂₂H₂₄N₂O₄ Camphor λ 3 (ethylene) α -
 phenylenebis(3-amino 4571^o)
 C₂₂H₂₄N₂O₄ 5-ene λ methyl, d camphor
 ω -sulfinato 3332^o
 C₂₂H₂₄N₂O₄ Photodichroer, esterol benzate
 301^o
 C₂₂H₂₄N₂O₄ Cellulose, heptacet(1)phenethyl,
 1499^o
 C₂₂H₂₄N₂O₄ 1,4otodichroer, esterol, carbanilate
 301^o
 C₂₂H₂₄N₂O₄ Ergosterol benzate 1836^o
 Isopropyl, benzate 1836^o
 Supraesterol, benzate 301^o
 C₂₂H₂₄N₂O₄ See Acetone
 C₂₂H₂₄N₂O₄ Isopropyl 5 methyl - 2 (5-
 methyl 3 propyl 2 pyrimethylene)
 3 propyl Cu complex 3010^o
 C₂₂H₂₄N₂O₄ Ketone, low ethyl methyl 2 pyr
 yl), azine, 2,2,2,2

- C₂₂H₂₄N₂O₄ Anasterol, benzate 113^o
 1 esterol benzate 113^o
 Photodichroer, esterol, tetrahydro- benzo-
 ate, 301^o
 C₂₂H₂₄N₂O₄ Capsanthin 1872^o, 3659^o, 3660^o
 C₂₂H₂₄N₂O₄ Cholesterol nitrobenzoate 521^o
 C₂₂H₂₄N₂O₄ Typhasterol benzate, 172^o
 C₂₂H₂₄N₂O₄ Lonic acid di Ac deriv 2302^o
 C₂₂H₂₄N₂O₄ Hederaea bromolactone
 acetonyl, 5171^o
 C₂₂H₂₄N₂O₄ Hederaetubol, d acetyl, 5172^o
 Oleonic acid Me ester, acetate 517^o
 C₂₂H₂₄N₂O₄ Hederaetubol diacetyl, 5172^o
 5172^o
 C₂₂H₂₄N₂O₄ Dibutylmethyl 2,5 vinyl
 phosphonium chloroplatinate 270^o
 C₂₂H₂₄N₂O₄ Palmitic acid, ethylene ester, 3313^o
 C₂₂H₂₄N₂O₄ Tetraacetate 473^o
 C₂₂H₂₄N₂O₄ Cholesterol, sulfate, 3903^o
 C₂₂H₂₄N₂O₄ Anthralin, 9 β (kura 6 oer,
 3 (2 anthraquinonilamino) 1 phenyl,
 4258^o
 C₂₂H₂₄N₂O₄ Compd m 245^o 161^o
 C₂₂H₂₄N₂O₄ 1-benzanthrenequinone, 27 dintro-
 so di 2 naphthyl, 101^o
 C₂₂H₂₄N₂O₄ Phenanthrenequinone, 2 nitro-
 so di 1 naphthyl, 101^o
 C₂₂H₂₄N₂O₄ Phenanthrenequinone, (a β di
 2 naphthyl, 101^o
 C₂₂H₂₄N₂O₄ Phenanthrenequinone (a β di
 2 naphthyl, 101^o
 C₂₂H₂₄N₂O₄ Urea + bis 6 methoxy 2 phenyl
 4 quinolyl, carbonyl 3283^o
 C₂₂H₂₄N₂O₄ 1 Naphthol phenylazo-, compd
 with EtCOCl, 3372^o
 C₂₂H₂₄N₂O₄ Mangostin bis(6 nitrobenzoyl)
 deriv 4272^o
 C₂₂H₂₄N₂O₄ Urea + bis 6 ethoxy 2-phenyl
 4 quinolyl 4884^o
 C₂₂H₂₄N₂O₄ 1 Iropanol, 1,1,1,3,3 pentaphenyl,
 acetate, 4254^o
 C₂₂H₂₄N₂O₄ Anhydro arabinosetri β naphthyl
 amine 88^o
 C₂₂H₂₄N₂O₄ 3 (lactone) β methyl trisbenzoate
 β toluenesulfonate 5149^o
 C₂₂H₂₄N₂O₄ 1 Propionic acid, α (2,4,6 trim
 phenoxyl) Et ester, compd with β H,
 803^o
 C₂₂H₂₄N₂O₄ 3 Pyrotercarboxylic acid, 3
 carboxy phenyl 2,5 dimethyl, strychnine
 salt, 5410^o
 C₂₂H₂₄N₂O₄ Phosphorphyryl 3352^o, 5847^o
 C₂₂H₂₄N₂O₄ See Phosphoride,
 C₂₂H₂₄N₂O₄ 1 Propionyl, oxime, 3352^o
 C₂₂H₂₄N₂O₄ 4014
 C₂₂H₂₄N₂O₄ Cresol phosylazo-, compd
 with EtCOCl, 3321^o
 C₂₂H₂₄N₂O₄ 1-eneone acyl, α benzamido-
 1-eneone salt 1211^o
 C₂₂H₂₄N₂O₄ 1,4-hydroxythrin Me ester, semi-
 carbazone 1835^o
 C₂₂H₂₄N₂O₄ Copper complex salt of Me ester of
 a compd from mesoporphyrin IX, 1256^o
 C₂₂H₂₄N₂O₄ 1-heoxyurpurin 7, 1, 1^o
 C₂₂H₂₄N₂O₄ See 1,2-dioxane
 C₂₂H₂₄N₂O₄ Methyl ester of compd from meso-
 porphyrin IX, 1256^o
 1,4-hydroxythrin Me ester, 1,2,3,4 tetramethyl
 -4 diethylpropyl, Me ester, 1257^o

- C₂₆H₁₆N₂O₂ Mesobisruben, di Me ester, and di-HCl, 163⁹
- C₂₆H₁₆N₂O₂ 4 Isopyrrolicarboxylic acid, 2 - [4 (β - carboxyethyl) - 3 - methyl - 5 - (3,4,5 - trimethyl - 2 - pyrrolylmethyl) - 2 pyrrolylmethylene] - 3 - methyl 5 - (3,4,5 - trimethyl - 2 pyrrolylmethyl), di Me ester, and HBr, 335⁹
- C₂₆H₁₆N₂O₂ 3 ketone, bis(4 ethyl - 3,5 - dimethyl 2 pyrrolyl), thiocarbohydrazide, 549⁹
- C₂₆H₁₆N₂O₂ Tracetyl deriv., decomps 171-82°, of endopocymine of Taka 543¹
- C₂₆H₁₆N₂O₂ Benzate, m 210°, ofale m 245-55°, 1335¹
- C₂₆H₁₆N₂O₂ Compd., decomps 178-93°, from saponin decomps 215°, 5431¹
- C₂₆H₁₆N₂O₂ 1,2 - Propanediol 3 (octadecyl oxy) dicarbamate, 684²
- C₂₆H₁₆N₂O₂ 11decaragene lactone diacetyl, 5171²
- C₂₆H₁₆N₂O₂ Dig tahn, 766²
- C₂₆H₁₆N₂O₂ Pentatriacontane, 1134², 4773²
- C₂₆H₁₆N₂O₂ Carbanic acid, heptyl, hepta decylamine salt, 497²
- C₂₆H₁₆N₂O₂ 5,6,5,6' - Dibenzo - 4,4',4' dihydro - 1,2,1',2' - anthraquinonamine, 1242²
- C₂₆H₁₆CoN₂O₂ 2(1) Naphthalenone[Δ¹] pseudodoxyl, Co deriv., 103²
- C₂₆H₁₆CuN₂O₂ 2(1) - Naphthalenone [Δ¹] pseudodoxyl, Cu deriv., 103²
- C₂₆H₁₆O₂ 7,14 - Naphthodianthrene-1,2,3,4,5-tetrahydroxy, tetraacetate, 1519²
- C₂₆H₁₆N₂O₂ Anthraquinone, 1 [(1 amino-2 anthraquinonyl)methyleneamino] 2 (phenylaminoethyl), 947²
- C₂₆H₁₆ [B] 1,2-benzanthrene, 2717²
- C₂₆H₁₆N₂O₂ 5(12) Naphthaceneone, 12,12 oxybis- 3649²
- C₂₆H₁₆O₂ Gemates, tribenzoate, 5675²
- C₂₆H₁₆O₂ Hehanthrone 2,3,4,5 tetrahydroxy, tetraacetate 1519²
- C₂₆H₁₆O₂ 1,1' - Bianthraquinone, 2,2,3,3 tetrahydroxy, tetraacetate, 1519²
- C₂₆H₁₆ 1,3-erylene, 3,9 bis(α methylenebenzyl), 292²
- C₂₆H₁₆O₂ 1,3-erylene, ditolyl 292²
- C₂₆H₁₆ 7,14 - Dibenzanthracene, 7,14 dibenzyl, 2717²
- Naphthalene, 2,6 bis(diphenylmethylene) 2,6-dihydro-, 943²
- C₂₆H₁₆Cl₂ Naphthalene, 1,5 (and 2,6) bis(α chlorobenzohydryl), 943²
- C₂₆H₁₆N₂O₂ 3,9 Perylenedicarboxamide, N H dimethyl, 292²
- C₂₆H₁₆N₂O₂ Pyridazo[4,5-b]pyridazine 1,4 (2,3) dione 2,3,6,7 tetrabenzoyl 6,7 dihydro 3,5 dimethyl, 1826²
- C₂₆H₁₆O₂ Biphenyl 3,3 dimethyl 4,4 di 1 naphthoyl, 2717²
- C₂₆H₁₆O₂ 10,10 Banthrone tetrahydroxy, tetraacetate, 1519², 1520²
- C₂₆H₁₆BrO₂ Δ^{1,2} 1,4 - Cyclohexadienediol, 2-bromo-1,3,4,5,6-pentaphenyl, 4539²
- C₂₆H₁₆ClO₂ Δ^{1,2} 1,4 - Cyclohexadienediol, 2-chloro-1,3,4,5,6-pentaphenyl, 4539²
- C₂₆H₁₆CuN₂O₂ 1(2) Phthalazone, 4-hydroxy nitro-, Cu deriv., pyridine complex 4001²
- C₂₆H₁₆N₂O₂ Ti + H₂O 3926²
- C₂₆H₁₆N₂ Naphthalene, 1,8 dibenzoyl, bis-(phenylhydrazine) 1515²
- C₂₆H₁₆N₂NiO₂ 1(2) Phthalazone 4 hydroxy nitro-, Ni deriv., pyridine complex 4001²
- C₂₆H₁₆O₂ 7,14 - 7,14 - 7,14 dibenzanthracene-7,14 dibenzoyl 7,14 dihydro- 717²
- Naphthalenedicarboxylic acid, α,α,α,α tetraphenyl, 943²
- 3,9 - 1,3-erylenedicarboxylic acid, α,α dimethyl α,α'-dibenzyl, 943²
- C₂₆H₁₆O₂ Δ^{1,2} 1,2,4 Cyclohexadienetriol 1,3,4,5,6-pentabenzyl 453²
- C₂₆H₁₆CoN₂ 3 Acenaphthenamine 2 phenyl azo-, Co deriv., 3332²
- C₂₆H₁₆CuN₂ 3 Acenaphthenamine 2 phenyl azo-, Cu deriv., 333²
- C₂₆H₁₆N₂ Compd. from chlorotriphenylmethane and 4,4'-1,1-benzyl 8 phenylene diamine, and HCl 4,46²
- C₂₆H₁₆N₂O₂ Cinchonamine 4 ethylene bis(6-methoxy-2-phenyl 4883²
- C₂₆H₁₆N₂Ni 3 Acenaphthenamine 2 phenyl azo- Ni deriv., 333²
- C₂₆H₁₆N₂NiO₂ 1 - Phthalazone 4 hydroxy Ni deriv., pyridine complex 4001²
- C₂₆H₁₆O₂ 10,10 In 9 anthrol tetramethoxy diacetate 1519²
- C₂₆H₁₆N₂O₂ 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000

- Porphun 1358 tetramethyl 24 diethyl - 7 - propionic acid 6 methyl malonic acid, tri Me ester Fe salt 3353⁹
- C₁₀H₁₀ClN₄ Night blue, 1722⁹
- C₁₀H₁₀CuN₄O₂ Copper deriv m 277° of ester m 257°, 1256⁹
- C₁₀H₁₀N₄O₂ Xylindric acid, di Me ester dimer carbazone, 1254⁹
- C₁₀H₁₀O₂ Adipic acid, β γ bis(α α dimethyl benzyl) α α dimethyl α α diphenyl 4239⁹
- C₁₀H₁₀O₂ Xylindric acid tetrahydro di Me ester, di Me ether 1254⁹
- C₁₀H₁₀N₄O₂ See *Dissimomexine*
- C₁₀H₁₀N₄O₂ Ester m 257° of compd from mesoporphyrin IX 1256⁹
- Porphun 1358 tetramethyl 24 diethyl 7 propionic acid 6 methyl malonic acid tri Me ester, 3353⁹
- C₁₀H₁₀N₄O₂ Deuteroporphyrin diacetyl di Me ester dimer carbazone 1835⁹
- C₁₀H₁₀N₄O₂ Methane bis(neoxanthobilirubin acid)isobutylmethyl 1838⁹
- C₁₀H₁₀BrO₂ Glucose acetobromogentiosides 2077⁹
- Glucose decaacetyl 1 α bromo 8 β cellobiosido- 4528⁹
- C₁₀H₁₀ClO₂ Glucose decaacetyl 1 chloro 6 β cellobiosido- 4528⁹
- C₁₀H₁₀O₂ Dihydrourosic acid Me ester benzoate 5668⁹
- C₁₀H₁₀O₂ Ursolic acid acid phthalate 2152⁹
- C₁₀H₁₀CuN₄O₂ Isopyrrole 4 ethyl 2 (4 ethyl 5 (methoxymethyl) 3 methyl 2 pyrrylmethylene) 5 (methoxy methyl) 4 methyl Cu complex salt 3356⁹
- C₁₀H₁₀O₂ Ursolic acid Me ester benzoate 5668⁹ phenacyl ester 2152⁹
- C₁₀H₁₀O₂ Hydnoacetic acid phenylenele P 9-9⁹
- C₁₀H₁₀N₄O₂ Semicarbazone does not m 210° of diketone m 182-3° 1513⁹
- C₁₀H₁₀O₂ Panassapogenin mono Ac der v 1533⁹
- C₁₀H₁₀Cl₂Pt Pt Diamyl(β ethylphenyl)methyl phosphonium chloroplatinate 283⁹
- Diamylmethyl 2 5 xyliphosphonium chloroplatinate 2702⁹
- Dibexylmethylphenylphosphonium chloroplatinate 5662⁹
- C₁₀H₁₀O₂ Oleic acid ethylene ester 4625⁹
- C₁₀H₁₀O₂ Stearic acid ethylene ester 3313⁹
- C₁₀H₁₀O₂ Acetate m 68° of alc m 83° 89
- C₁₀H₁₀O₂ 3 6 Xanthenediol 9 9 diphenyl dibenzoate 3641⁹
- C₁₀H₁₀N₄O₂ 9 Fluorenone 2 7 d benzoyl bisphenylhydrazine 5158⁹
- C₁₀H₁₀ClNO Acetohydroxymethyl chloride tri phenyl, PhC deriv 942⁹
- C₁₀H₁₀N₄O₂ 8 Indolo[3 2 1 δ]acridine 6 carboxylic acid 8 keto cinchonine salt 2998⁹
- C₁₀H₁₀N₄O₂ Benzaldehyde dihydrazine with α α' salicylaldi β phenylenebis-hydrazine tri Ac deriv 1507⁹
- C₁₀H₁₀N₄O₂ Lutidonic acid, 3 (α carboxy phenyl) 6 phenyl cinchonine salt 106⁹
- C₁₀H₁₀O₂ Salicylic acid, 6 O triphenylmethyl β glucoside Me ester, sacacetate 5677⁹
- C₁₀H₁₀O₂ Glucose tetrabenzoyl 2 methyl di Et mercaptal 1804⁹
- C₁₀H₁₀BrN₄O₂ p Toluquinone 5 (4 bromo 2 mesityl) 3 6 dihydroxy bromine deriv 5410⁹
- C₁₀H₁₀N₄O₂ Coprorrh din tri Me ester 3351⁹ 3357⁹
- C₁₀H₁₀N₄O₂ Methane bis neoxanthobilirubin acid o nitroxybenyl 1837⁹
- C₁₀H₁₀N₄O₂ Methane bis neoxanthobilirubin acid phenyl 1837⁹
- C₁₀H₁₀N₄O₂ 4 1 o pyrrole propionic acid α 5 methylene(α) 3 carboxy 5 by lroxy 4 methyl - pyrrylmethylene) 3 methyl tetra Et ester 4010
- C₁₀H₁₀O₂ Tric acid Me ester acid phthalate 155⁹
- C₁₀H₁₀O₂ Glucose decaacetyl 1 β methyl α(acid β) cellobiosido 6 3968⁹
- C₁₀H₁₀O₂ Panassapogenin Me ester Ac deriv 1533⁹
- C₁₀H₁₀N₄O₂ 1 3 Cyclohexanetriol tris men thylcarbamate 921⁹
- C₁₀H₁₀Laun tri J31⁹ 5809
- C₁₀H₁₀BrO₂ Compd m 421 2° from 6 6 dichromo 1 1 bi - naphthol 1530
- C₁₀H₁₀BrO₂ 3 10 Perylenequinone 11 bromo 2 2 thiois 4873⁹ compd with SbCl₅ 4874⁹
- C₁₀H₁₀BrN₄O₂ 2 Bathiophene 5,5 bis (4 bromo 2 3 dihydro 2 keto 3 [5 - thienyl) 2 thienyl) 3 indyl) 33
- C₁₀H₁₀O₂ Dienco[α β]xanthen 13 α 12 keto 11 α benzoxantheneacrylate 3986⁹
- C₁₀H₁₀N₄O₂ 2 2 Lithiophene 5 5 bis(2 3 dihydro 2 keto 3 [5 2 thienyl) 2 thienyl) indyl) 2931⁹
- C₁₀H₁₀O₂ Spuri[1]hemanthrene 9 10) 9 xan then] 10 one 4 6 dihydroxy 1 benzoele 3644⁹
- C₁₀H₁₀ 9' B Fluorene 9 0 dibenzyl 3984
- 1 4 Cyclohexadiene 3 3 acetyleneluis[8 diphenylmethylene 913⁹
- C₁₀H₁₀Cl₂ Stilbene p p bis α chlorobenzoyl dryl) 943⁹
- C₁₀H₁₀O₂ 1 0 Benzodi 1 4 pyran 4 6 lone 2 8 di m amyl 3 7 dibenzal 3 7 8 tetrahydro 1526⁹
- C₁₀H₁₀O₂ 9 9 B anthracene]hexol hexaacetate 1519 11
- C₁₀H₁₀N₄O₂ Zr + 7 H₂O 3928
- C₁₀H₁₀O₂ Carbazol p p xylenebis(tri phenyl) 943⁹
- C₁₀H₁₀ClN₄O₂ Phenol p (p nitrophenylazo) compd with AcCl 3321⁹
- C₁₀H₁₀N₄O₂ 8 Indolo[3 2 1 δ]acridine 6 carboxylic acid 8 keto quinone salt 2998⁹
- C₁₀H₁₀N₄O₂ Benzoic acid 2 (1 naphthyl) 3 o-bromo bromine salt 4258⁹
- C₁₀H₁₀BrN₄O₂ Glucosamine tetrabenzoyl 5 (α bromo socaproyl) 1805⁹
- C₁₀H₁₀CoN₄O₂ Coproporphyrin 1 tetra Me ester Co deriv 2433⁹
- C₁₀H₁₀N₄O₂ Compd of acetone with compd from (p MeNC(=O)COH and [2 4 6 (ON)₂C(=O)]₂NH 2991⁹
- C₁₀H₁₀ 4 8 Dodecadene, 2 2 11 11 tetra methyl 6 6 7 7 tetraphenyl 4871
- C₁₀H₁₀CuN₄O₂ Coproporphyrin dinitro tetra Me ester Cu deriv 2433⁹

- C₁₀H₁₆O₂ Q₁ malazarin, 2 acetocellulobiosyl, 399⁴
- C₁₀H₁₆CuN₂O₁₁ Coproporphyrin nitrodihydroxy tetra Me ester Cu deriv 433⁴
- C₁₀H₁₆N₄O₁ Coproporphyrin dimetro- tetra Me ester 2433⁴
- C₁₀H₁₆O₁ \j\ndene acid hexahydro- di Me ester tetra Me ether 1254⁴
- C₁₀H₁₆N₄O₁ Coproporphyrin nitro- tetra Me ester 2433⁴
- C₁₀H₁₆N₄O₁ Coproporphyrin nitrodihydroxy tetra Me ester 2433⁴
- C₁₀H₁₆AgN₄O₁ Coproporphyrin tetra Me ester Ag deriv 2433⁴
- C₁₀H₁₆N₄O₁ 1,3-dimethoxy anhydride 2149⁴
- C₁₀H₁₆N₄O₁ Coproporphyrin tetra Me ester 3349⁴
- C₁₀H₁₆Br₂O₁ 1,2,4,5 Benzenetetratol 3,6 bis 3 (romo 2 methyl) tetrahydro 2640⁴
- C₁₀H₁₆Mo₂N₂O₁ 16H₂O 5106⁴
- C₁₀H₁₆O₁ C₁₀lithrose acetate 41 0 (lucose α and β hendecacetyl 6 β-cell 11endo- 42,9⁴)
- C₁₀H₁₆ See Carotene Lycopin
- C₁₀H₁₆O₁ 1079
- Intein 3351⁴ 3471
- Xanthophyll 34
- Zeaxanthin 33 1⁴ 35¹
- C₁₀H₁₆O₁ Taraxanthin 56¹
- Violaxanthin 351
- C₁₀H₁₆O₁ Ficoxanthin 359⁴
- C₁₀H₁₆O₁ C₁₀ucose leucacetyl 1 α ethyl β cell 10x du h 3469
- C₁₀H₁₆N₂O₁ Iso; benothazine 9 dimethyl am no 3 methylamino- compd with Me cholate P 1 61
- C₁₀H₁₆ Carotene 1 hydro- 111⁴ 4531⁴ 5694
- 1,3-cro; n dihydro 453⁴
- C₁₀H₁₆ Carotene octadecahydro- 2112
- C₁₀H₁₆N₂O₁ Ricinoleic acid ester of diethanol amine 1706
- C₁₀H₁₆ Carotene eicosahydro- 211⁴
- C₁₀H₁₆O₁ Violaxanthin perhydro- 3352
- C₁₀H₁₆ Dotracontane 6 10 14 19 23 27 31 octamethyl 73
- Tetracontane 454⁴
- C₁₀H₁₆ClO₁ Naphthol 1 1 chlorobenzalbus- d benzoate 190⁴ 1875⁴
- C₁₀H₁₆N₂O₁ 8 Indolo[3,2,1 b]acridine 6-carboxylic acid 8 keto- strychnine salt 2959⁴
- C₁₀H₁₆N₂O₁ Lutidine acid 3 α carboxy phenyl-6 phenyl strychnine salt 106⁴
- C₁₀H₁₆N₂O₁ Methane bis neoxanthoholuribic acid) p-dimethylamino phenyl 183⁴
- C₁₀H₁₆O₁ Xanthophyll Me ether 520
- C₁₀H₁₆O₁ Phytosterol tetra Ac deriv 2434⁴
- C₁₀H₁₆O₁ Laurin myristole 3858⁴
- C₁₀H₁₆Br₂ Rubrene dilromo- 513
- C₁₀H₁₆Br₂ Rubrene dibromo- oxyten deriv, 513
- C₁₀H₁₆K₂O₁Th₂ + 0.11H₂O 39 6
- C₁₀H₁₆O₁ Metritrene 2634⁴
- C₁₀H₁₆O₁ Isooxyrubrene 2634
- Rubrene oxy 2634
- C₁₀H₁₆ Benzene hexa[enyl] 1501⁴
- C₁₀H₁₆O₁ 3, Dimide bis[2,2 methoxy 1 naphthyl] 1 naphthyl] 3331⁴
- C₁₀H₁₆O₁ 1,9 Dendro 1 4 pyran 4 6 dione 2 8 di m anisyl 2 3 7 8 tetrahydro 3 7-diphenylphene- 15-6⁴
- C₁₀H₁₆O₁ Phenolpyromelliten, tetraacetate 97⁴
- C₁₀H₁₆N₂O₁ 2 Butine 1 4 dicarboxanilide, 1 1 4 4 tetraphenylidimo-, 1236⁴
- C₁₀H₁₆ 1 5 Hexadene 1,1,2,5,6,6 hexa phenyl 4235⁴
- C₁₀H₁₆O₁ 9,9 Bisfluorene 9,9 bis(phenyl) mercapto AcOEt compd, 299⁴
- C₁₀H₁₆FeN₂O₁ 1 Benzylpyridinium ferricyanide, 4269⁴
- C₁₀H₁₆O₁ Leucosylindene tetraacetyl, 1254⁴
- C₁₀H₁₆N₂O₁ [1,1 Binaphthalene] 8,8' di carboxylic acid quinine salt 4872⁴
- C₁₀H₁₆O₁ Phenolpyromelliten tetra Et ether, 9⁴
- C₁₀H₁₆K₂N₂O₁Ti 3926
- C₁₀H₁₆N₂O₁ Aniline p p tetraphenylethylenebis [N,N-dimethyl] 1235⁴
- Compd m 165⁴ from reaction of p Me-N-C₁₀H₁₆ClPhOH in acetone and HCl with CrCl₃ 1235⁴
- C₁₀H₁₆N₂O₁ Peroxide bis(p dimethylamino-phenyl)diphenylmethy], 1235⁴
- C₁₀H₁₆N₂O₁Rb-Ti 3926⁴
- C₁₀H₁₆O₁ Anthraquinone 1 7 diacetoglucoxy, 3992⁴
- Hystaxarin diacetoglucoxy, 3992⁴
- Xanthopurpurin, diacetoglucoxy, 3992⁴
- C₁₀H₁₆N₂O₁ Nacrophane 4046⁴
- C₁₀H₁₆N₂O₁ 3 Euphorol 1 - naphthalenecar hamate, 5657⁴
- C₁₀H₁₆ClP₂ Diheptylmethylphenylphosphon um chlorophosphate 5662⁴
- C₁₀H₁₆N₂O₁P₂ Palmatolideol-α leucithin, 1836⁴
- C₁₀H₁₆N₂O₁S₂ Carbamide m m' bis(6,11-dihydro 6 11 diketo 2 β anthra thiazolyl) 2724⁴
- C₁₀H₁₆N₂O₁ 8 Indolo[3,2,1 b]acridine 6-carboxylic acid 8 keto-, brucine salt, 2990⁴
- C₁₀H₁₆ 3 Hexene, 3 methyl 1,1,1,6,6,6-hexaphenyl, 2991⁴
- C₁₀H₁₆O₁ Anthraquinone 1 - methoxy 2,7 diacetoglucoxy 3992⁴
- C₁₀H₁₆Br₂N₂ Tribenzylamine hydroxide, compd with CHBr₃ 282⁴
- C₁₀H₁₆N₂O₁P₂ Bis(β diacetonefructose) 1 phosphoric acid Onchondine salt, 5144⁴
- C₁₀H₁₆O₁ + 11H₂O kalotom, 4855⁴
- C₁₀H₁₆O₁ Laurin dimyristole, 3858⁴
- C₁₀H₁₆O₁ 6 Pentacetylperoxide, 6,13 dihydro-, 2141⁴
- C₁₀H₁₆O₁P₂ Phosphoric acid bis(2,4 diphenyl 1 naphthyl) ester 4257⁴
- C₁₀H₁₆O₁ Rubrene dimethoxy 4533⁴
- C₁₀H₁₆ Compd m 240⁴ from 2,3-dimethyl 1 3-butadiene and PhC₂ 2991⁴
- C₁₀H₁₆O₁ Xylinde acid di Me ester, tetra Ac deriv, 1254⁴
- C₁₀H₁₆ClP₂N₂O₁ Coproporphyrin III tetra Me- ester Fe deriv 3351⁴
- C₁₀H₁₆CuN₂O₁ Coproporphyrin III tetra Me ester Cu deriv 3351⁴
- C₁₀H₁₆N₂O₁ Gypophoric acid quinine salt, 2136⁴
- C₁₀H₁₆N₂O₁Zn Coproporphyrin III, tetra Me ester Zn deriv 3351⁴
- C₁₀H₁₆ClP₂N₂O₁ Porph n 1 3 5 8 - tetra methyl 2 4 di methylmalonic acid 6,7 dipropionic acid, hexa Me ester, FeCl₃ deriv 1121⁴

- C₂₆H₁₀Ag N₁₀O₁₆S₄. Pentakis $\alpha\alpha$ dipyrrolyl diargentate persulfate 1700⁴
- C₂₆H₁₀O₄ [1,1 Bantbragunol] 4,4 dicarboxylic acid dimethyl ester 3641²
- C₂₆H₁₀N₂O₅ Succinic acid α - β -disulfo brucine salt 42²⁴
- C₂₆H₁₀N₂O₅ Porph_n 13 > 8 tetramethyl 4 di methylimonic acid 6⁻ di propionic acid hexa Et ester 117²
- C₂₆H₁₀NO₄ Lutidonic acid 3 (o carboxy phenyl) 6 phenyl trimethyl ester 106
- C₂₆H₁₀O Xanthophyll divalente 270
- C₂₆H₁₀ 4,8 Dodecadiene 3 10 diethyl 6,6 ~ tetrakis(ethyl γ methyl 1 pentenyl) 3 10-dimethyl 3590²
- C₂₆H₁₀ Pentacontane 483²
- C₂₆H₁₀ClN₂O₄ Nicotinic acid 2 (2 carboxy 6-chlorophenyl) d c nicotine salt 106
- C₂₆H₁₀N₂O₅S Hydratropic acid β sulfo strychnine salt 4864
- Hydrocinnaamic acid β sulfo strychnine salt 4864²
- C₂₆H₁₀N₂O₅ 2,5 γ Spiroheptanedicarboxylic acid strychnine salt 4858²
- C₂₆H₁₀AlO₄ Camphor benzoyl Alderiv 341¹
- C₂₆H₁₀O₄ See Palmatin
- C₂₆H₁₀CoN₂O₅ α β Naphthotriazole 2 [p 2 amino 1 naphthylazo]phenyl Co deriv 333²⁴
- C₂₆H₁₀CuN₂O₅ α β Naphthotriazole 2 [p (2 amino 1 naphthylazo)phenyl] Cu deriv 333²⁴
- C₂₆H₁₀N₂ClN₂O₅ α β Naphthotriazole 2 [p (2 amino 1 naphthylazo)phenyl] Ni deriv 333²⁴
- C₂₆H₁₀O₄ Dipentaerythritol hexabenzate 1486
- C₂₆H₁₀N₂O₅S₂ $\alpha\alpha$ Bibenzenesulfonic acid quinine salt 98²
- C₂₆H₁₀CuN₂O₅ 4 Isopyrrolopropionic acid 2 (o amino 3 (β carboxyethyl) 4 methyl 2 pyrrolmethylene) 3,5 dimethyl di Me ester Cu deriv 2433²
- C₂₆H₁₀N₂O₅S₂ $\alpha\alpha$ γ Melenophenedicarboxylic acid tetrahydro dibrucine salt 4263²
- C₂₆H₁₀O₄ Cellotetrose acetate 4120¹
- β Gentioicose β gentiobioside tetra decaacetate 29 81
- C₂₆H₁₀O₄ Xanthophyll dicaprate 320
- C₂₆H₁₀O₄ Sapon n decamps 215² 5431²
- C₂₆H₁₀N₂O₅ Pseudoundole 2,2 (2 (m nitrophenyl)trimethylene)bis[3 (3 dibenzyl) 5425²
- C₂₆H₁₀N₂ Pseudoundole 2,2 (β phenyltrimethylene)bis[3 (3 dibenzyl) 5425²
- C₂₆H₁₀N₂O₅ Compd of acetone with compd from (p MeN(C₆H₄)COH and [2,4 (O₂N)₂C₆H₃]CN 2991¹
- C₂₆H₁₀BrN₂O₅ 2,2 Ethophene 5,5 bis[1 (p bromo enzo)yl] 2,3 dihydro-2 keto 3 [5 (2 thenyl) 2 thenyl] 3-indyl] 2931²
- C₂₆H₁₀N₂O₅ 2,2 Butiophene 5,5 bis[2,3 dihydro-2 keto 1 p nitrobenzo]yl] 3 [5 (2 thenyl) 2 thenyl] 3 indyl] 2931²
- C₂₆H₁₀As N₂O₅ Ihenarsazine, 1,6 - dihydro-1 - hydroxy oxalate, compd with AcOH, 110¹
- C₂₆H₁₀ 1,5 Hexadecene, 1,1,2,3,4,5,6,6-octaphenyl 4206¹
- C₂₆H₁₀N₂O₅S₂ 6,6² Dimetamlic acid, strychnine salt 98²
- C₂₆H₁₀BrN₂O₅ 1,4 Cyclohexadienediacetic acid 2 (4 bromo 2 - mesityl) - 3,6-diketo 3 methyl, dimorphane salt, 5410
- C₂₆H₁₀O₄ Xanthophyll, dicannathate, 520¹
- C₂₆H₁₀O₄P Phosphoric acid, dicholesteryl ester, P 1335²
- C₂₆H₁₀ClN₂ Methane chlorotris[p - (p phenyl amino)phenyl] 1513²
- C₂₆H₁₀ClN₂O₄ Methane chlorotris[p - (p phenox amino)phenyl] 1513²
- C₂₆H₁₀ClN₂S₂ Methane chlorotris[p (p phenyl mercaptoamino)phenyl], 1513²
- C₂₆H₁₀ClN₂O₅ Nicotinic acid, 2 (2 carboxy-6 chlorophenyl), distrychnine salt 106¹
- C₂₆H₁₀N₂O₅S Hydratropic acid, β - sulfo, brucine salt 4864¹
- Hydrocinnaamic acid, β (?) sulfo, brucine salt 4864²
- C₂₆H₁₀N₂O₅ 2,5 γ Spiroheptanedicarboxylic acid brucine salt 4858²
- C₂₆H₁₀N₂O₅ + H₂O 3928¹
- C₂₆H₁₀O₄ Suprasterol oxalate, 301²
- C₂₆H₁₀O₄ Xanthophyll dicaprylate 520¹
- C₂₆H₁₀O₄ Cerotic acid, ester of myricyl alc , 912²
- C₂₆H₁₀O₄ See Linolenin
- C₂₆H₁₀O₄ See Eleostearin
- C₂₆H₁₀O₄ See Olefin
- C₂₆H₁₀O₄ See Stearin
- C₂₆H₁₀Br₂N₂O₅ Phenol p-phenylazo, compd with AcBr, 3321²
- C₂₆H₁₀N₂O₅S₂ $\alpha\alpha$ Bibenzenesulfonic acid, brucine salt 98²
- C₂₆H₁₀N₂O₅S₂ 6,6 Dimetamlic acid, brucine salt 98²
- C₂₆H₁₀O₄ Compd m 257°, from dehydroergosterol 302¹
- C₂₆H₁₀ClN₂O₅ Nicotinic acid, 2 (2 carboxy 6-chlorophenyl), dibrucine salt, 106¹
- C₂₆H₁₀O₄ Hexapyrrogallolmelliten dodeca Me ether, 97²
- C₂₆H₁₀N₂ 1 Benzylpyridinium iodide, compd with benzidine, 5426²
- C₂₆H₁₀N₂O₅ [1,1 Bipyrrrole] 3,3 dicarboxylic acid, 2,2,5,5 tetramethyl, dibrucine salt, 3640²
- C₂₆H₁₀N₂O₅ Xyleneglycocholic acid, 5920²
- C₂₆H₁₀ Hexacontane 483²
- C₂₆H₁₀N₂O₅ Salicylaldehyde, d hydrazone with benzaldehyde phenylenehydrazine, tetra Bz deriv , 4862²
- Salicylaldehyde benzalhes, bis(phenylhydrazine) tetra Bz deriv , 4862²
- C₂₆H₁₀O₄ Phytosterolin, tetra Bz deriv , 2434
- C₂₆H₁₀ClN₂O₅ Phenol p-phenylazo, compd with COCl₂, 3321²
- C₂₆H₁₀O₄ Gentioicose, heptal enzo] 1 β methyl 3401²
- Glucose heptabenzoyl 1 β methyl 6 α glucoside. 5401²
- C₂₆H₁₀N₂O₅ Lutidonic acid 3 o carboxy phenyl) 6 phenyl) A strychnine salt 106
- C₂₆H₁₀N₂O₅ Fluorene compd with 1,3,5 tri nitrobenzene 150²
- C₂₆H₁₀O₄ Genslin hexabenzoyl, 5675²
- C₂₆H₁₀N₂O₅Zn 4 Isopyrrolopropionic acid, 2 (4 cyano 3,5 dimethyl 2 pyrrolmethyl

- ylene)-3,5-dimethyl, Zn complex compd, with Zn OAc₂, 609^o.
- C₂₀H₁₈O₂ Sp rot[anthene - 9,9 (10) - phenanthrene 10,9^o - anthene] - 3,3',6,6'-tetrol tetraacetate, 3644^o.
- C₂₀H₁₈O₂P I phosphoric acid tri-2,4-diphenyl 1 naphthylester, 4250^o, 4257^o.
- C₂₀H₁₈N₂O₂ Lutidine acid, 3 (α-carboxy phenyl) - 6-phenyl, dabrucine salt, 100^o.
- C₂₀H₁₈O₂ α-Taralo, octaacetyl, 1949^o.
- C₂₀H₁₈BrO₂ 3,10 Perylenediol tetramethoxy, tetraacetate, 4874^o.
- C₂₀H₁₈O₂ Compd, m 234^o, from reduction of 1 naphthyl benyl ketone, 4879^o.
- C₂₀H₁₈O₂ Turanose, tri(triphenylmethyl) 4855^o.
- C₂₀H₁₈AlN₂O₂ 5662^o.
- C₂₀H₁₈ α Heptacontane, 485^o, 1134^o.
- C₂₀H₁₈O₂ 3022^o.
- Xanthophyll dipalmitate 5,0^o.
- C₂₀H₁₈N₂O₂S₂ Succinic acid, α,β disulfobrucine salt, 4222^o.
- C₂₀H₁₈O₂ Cellulohexanose, acetate 4119^o.
- C₂₀H₁₈O₂ Turanose, tri(triphenylmethyl) pentaacetate 4855^o.
- C₂₀H₁₈O₂ α Tetraamylase octabenzate 88^o.
- C₂₀H₁₈O₂ Panazapogenin, di Ac deriv an hydride 1533^o.
- C₂₀H₁₈O₂ Hygroterol - d gitonide, 3771^o.
- C₂₀H₁₈Br₂N₂O₂ 1 - Naphthol, phenylazo-compd with Br₂, 3322^o.
- C₂₀H₁₈O₂ Bothrodendrin 2456^o.
- C₂₀H₁₈O₂ Tasmann 2455^o.
- C₂₀H₁₈O₂ Pollen from *Corylus* 245^o.
- C₂₀H₁₈O₂ Sportens from *Lycopodium clavatum*, 2455^o.
- C₂₀H₁₈O₂ Pollen from *Pinus* 2455^o.
- C₂₀H₁₈O₂ Pollen from *Picea*, 2455^o.
- C₂₀H₁₈N₂O₂S₂ Succinic acid, α,β disulfobrucine salt 4222^o.
- C₂₀H₁₈N₂O₂P 2159^o.
- C₂₀H₁₈N₂O₂F 2159^o.
- C₂₀H₁₈O₂ Ether, bis[β tri(triphenylmethoxy methyl)ethyl] 1480^o.
- CaCl₂ See Calcium chloride
- CaCl₂O₂ See Calcium hypochlorite
- CaCl₂O₂ Calcium chlorite 4455^o.
- CaCl₂O₂ See Calcium chlorate
- CaCl₂Mg₂ + 12H₂O See Tachydrate
- CaCrO₄ See Calcium chromate
- CaF₂ See Calcium fluoride
- CaF₂ See Calcium fluoride Fluorite
- CaF₂Mg₂ See Zambonite
- CaF₂Si₂ See Calcium fluorosilicate
- CaFeO₂ Calcium ferrite 3559^o.
- CaH₂ See Calcium hydride
- CaHO₂P See Brushite Calcium phosphates Monelite
- CaH₂ See Calcium hydride
- CaH₂O₂ See Calcium hydroxide
- CaH₂O₂P₂ See Calcium phosphates
- CaH₂KN₂ 2628^o.
- CaI₂O₂ See Lantharite
- CaIn₂O₂ Calcium indate, 885^o.
- CaK₂O₂Si₂ Calcium potassium silicate 1718^o.
- CaK₂O₂Si₂ + H₂O See Syngenite
- CaK₂N₂O₂ Calcium potassium nitrate 3551^o.
- CaK₂O₂Si₂ Calcium potassium silicate 1715^o.
- CaK₂O₂Si₂ Calcium potassium silicate, 1715^o.
- CaK₂O₂Si₂ Calcium potassium silicate 1718^o.
- CaMgO₂Si₂ See Monticellite
- CaMgO₂Si₂ See Diopside
- CaN₂O₂ See Calcium nitrate
- CaO See Lime
- CaO₂Sn Calcium stannate, 1175^o.
- CaO₂ See Calcium sulfate
- CaO₂Si₂ See Calcium silicate
- CaO₂Si₂ See Calcium silicate Halcitons
- CaO₂Ti₂ See Lantharite
- CaO₂Zr Calcium zirconium oxide 2633^o.
- CaO₂ See Anhydrite Calcium sulfate Gypsum Solenite
- CaO₂W See Calcium tungstate Scheelite
- CaO₂Si₂ See Titanite
- CaS See Calcium sulfide
- Ca₂CbO₂ Calcium columbium oxide 4481^o.
- Ca₂Ca₂H₂O₂Si₂ See Lantharite
- Ca₂Cl₂Mg₂ + 6H₂O Calcium magnesium chloride 1725^o.
- Ca₂FeO₂ See Calcium ferrite
- Ca₂K₂MgO₂Si₂ + 21H₂O See Lantharite
- Ca₂K₂O₂Si₂ Calcium potassium silicate, 1718^o.
- Ca₂K₂O₂Si₂ Calcium potassium silicate, 1718^o.
- Ca₂MnO₂Si₂ See Thermanite, manganese
- Ca₂O₂Si₂, 1175^o.
- Ca₂O₂Si₂ See Calcium silicates Halcitons
- Ca₂O₂Si₂Zn₂ See Hardystonite
- Ca₂O₂Ta₂ Calcium tantalum oxide 2381^o.
- Ca₂O₂Si₂ + H₂O See Lantharite
- Ca₂K₂O₂Si₂ 1715^o, 3551^o.
- Ca₂N₂ See Calcium nitride
- Ca₂O₂Si₂ See Calcium silicates
- Ca₂O₂Si₂ See Calcium phosphates Collophanite
- Ca₂FH₂(K₂O₂Si₂) See Apophyllite
- Ca₂O₂Ta₂ Calcium tantalum oxide 2381^o.
- Ca₂CbO₂Si₂ Calcium columbium oxide, 2351^o.
- Ca₂H₂O₂Si₂ + 21H₂O See Lantharite
- Cb₂P₂ Columbium phosphide, 4192^o.
- Cb₂O₂ See Columbium oxide
- Cb₂O₂Se Columbium strontium oxide, 2381^o.
- Cb₂O₂Se₂ Columbium strontium oxide, 2381^o.
- CdCl₂ See Cadmium chloride
- CdCl₂O₂ + 2H₂O Cadmium chlorite, 4455^o.
- CdCl₂O₂ Cadmium perchlorate, 5099^o.
- CdCl₂K Cadmium potassium chloride, 5625^o.
- CdCl₂H₂N₂ Ammonium cadmium chloride, 2353^o.
- CdF₂ See Cadmium fluoride
- CdFeO₂ Cadmium ferrite 3559^o.
- CdH₂ See Cadmium hydride
- CdH₂N₂O₂Si₂ + 6H₂O Ammonium cadmium sulfate 5813^o.
- CdH₂HgI₂N₂ 5862^o.
- CdH₂N₂O₂Si₂ 2932^o.
- CdI₂ See Cadmium iodide
- CdIn₂N₂ Cadmium indium iodide 2363^o.
- CdIn₂O₂ Cadmium indate 885^o.
- CdK₂O₂Si₂ + 6H₂O Cadmium potassium sulfate, 1454^o.
- CdMg₂ 1432^o.
- CdMg₂ 1432^o, 1717^o.
- CdNa₂O₂Si₂ + 6H₂O Cadmium sodium sulfate 1454^o.
- CdO See Cadmium oxide
- CdO₂ See Cadmium sulfate
- CdO₂W Cadmium tungstate, 10^o.
- CdS See Cadmium sulfide
- CdSb₂, 2907^o, 4830^o.
- CdTe Cadmium telluride, 2890^o.
- Cd₂Mg₂ 1432^o, 1717^o.
- Cd₂Sb₂, 2907^o.
- Cd₂Cl₂Sb₂ + 2H₂O 1177^o.
- CeCl₂ See Cerium chloride
- CeF₂ See Cerium fluoride
- CeH₂O₂ See Cerium hydroxide

- C₂₆H₁₀Ag₂N₁₀O₁₆S₄ Pentakis $\alpha\alpha$ dipyrrolyl diargentate persulfate 1750⁴
- C₂₆H₁₀O₄ [11 Banthraquinone] - 4 4 dicarboxylic acid dimethyl ester 3641²
- C₂₆H₁₀N₂O₈S₂ Succinic acid $\alpha\beta$ disulfone bromine salt 4222⁴
- C₂₆H₁₀N₂O₈ Porphyrin 1 3 5 8 tetramethyl 2 4 di methylmalonic acid 6 7 di propionic acid hexa Et ester 112²
- C₂₆H₁₀N₂O₈ Luteidic acid 3 (o carboxy phenyl) 6 phenyl trimethyl ester 106
- C₂₆H₁₀O₄ Xanthophyll divalerate 520¹
- C₂₆H₁₀ 4 8 Dodecadone 3 10 diethyl 6 6 7 7 tetrakis(ethyl γ methyl 1 pentyl) 3 10-dimethyl 5690⁴
- C₂₆H₁₀ Pentacostane 453²
- C₂₆H₁₀ClN₂O₄ Nicotinic acid 2 (2 carboxy 6-chlorophenyl) diaceticum salt 106¹
- C₂₆H₁₀N₂O₈S₂ Hydratric acid β sulfo strychnine salt 4864¹
- Hydrocinamic acid β (?) sulfo- strychnine salt 4864¹
- C₂₆H₁₀N₂O₈ 2 5 γ Spiroheptenedicarboxylic acid strychnine salt 4858¹
- C₂₆H₁₀AlO₄ Camphor benzoyl Alderiv 5341¹
- C₂₆H₁₀O₄ See *Palmarin*
- C₂₆H₁₀CuN₂O₈ $\alpha\beta$ Naphthotriazole 2 [p (2 amino 1 naphthylazo)phenyl] Cu deriv 3332⁴
- C₂₆H₁₀CuN₂O₈ $\alpha\beta$ Naphthotriazole 2 [p (2 amino 1 naphthylazo)phenyl] Cu deriv 3332⁴
- C₂₆H₁₀N₂NI₂O₈ $\alpha\beta$ Naphthotriazole 2 [p (2 amino 1 naphthylazo)phenyl] Ni deriv 3332⁴
- C₂₆H₁₀O₄ Dipentaerythritol hexabenzozate 1486
- C₂₆H₁₀N₂O₈S₄ o o Bibenzenesulfonic acid quique salt 98¹
- C₂₆H₁₀CuN₂O₈ 4 Isopyrrolopropionic acid 2 (o-anilino 3 (p carboxyethyl) 4 methyl 2 pyrrolimethylene 3 o dimethyl di Me ester Cu deriv 2433¹
- C₂₆H₁₀N₂O₈S₂ 2 5 Selenophenedicarboxylic acid tetrahydro- dibrucine salt 4263⁴
- C₂₆H₁₀O₄ Cellotetrose acetate 4170¹
- β Gentiobiose β gentiobiosido tetra decaacetate 2978
- C₂₆H₁₀O₄ Xanthophyll dicaproate 520¹
- C₂₆H₁₀O₄ Saponin decomps 215² 5431⁴
- C₂₆H₁₀N₂O₈ Pseudoindole 2 2 [p (m nophenyl)trimethylene]bis[3 3 dibenzyl] 5425²
- C₂₆H₁₀N₂ Pseudoindole 2 2 (p phenyl)tris methylene]bis[3 3 dibenzyl] 5425¹
- C₂₆H₁₀N₂O₈ Compd of acetone with compd from [p MeN(C₆H₅)]CO₂ and [3 4 (O-N)₂C₆H₅]CH 2991⁴
- C₂₆H₁₀Br₂N₂O₈ 2 2 B thiophene 5 5 1x11 [p bromol eneyl] 2 3 dihydro- 2 keto 3 [5 (2 thienyl) 2 thienyl] 3 indyl] 293
- C₂₆H₁₀N₂O₈S₂ 2 2 B thiophene 5 5 b 5 [2 3 dihydro 2 keto 1 p nitrobenzoyl 3 [5 (2 thienyl) 2 thienyl] 3 indyl] 293¹
- C₂₆H₁₀As₂N₂O₈ Phenazazine 1,6 dihydro- 1 hydroxy oxalate compd with AcOH, 110
- C₂₆H₁₀ 1 3 Hexadecane 1 1,2 3 4 5 6 octaphenyl 4706
- C₂₆H₁₀N₂O₈S₂ 6,6' Dimetamlic acid, strychnine salt 95¹
- C₂₆H₁₀Br₂N₂O₈ 1,4 Cyclohexadienediacetic acid 2 (4 bromo 2 mesityl) - 3 6-diketo 5 methyl, dimorphane salt, 5410²
- C₂₆H₁₀O₄ Xanthophyll dianthate 520¹
- C₂₆H₁₀O₄P Phosphoric acid, dicholesteryl ester, P 1325²
- C₂₆H₁₀ClN₂ Methane chlorotris[p - (p phenyl an hno)phenyl], 1513⁴
- C₂₆H₁₀ClN₂O₄ Methane chlorotris[p - (p phenyl oxyan hno)phenyl], 1513⁴
- C₂₆H₁₀ClN₂S₂ Methane chlorotris[p (p phenyl- mercaptoan hno)phenyl], 1513⁴
- C₂₆H₁₀ClN₂O₄ Nicotinic acid, 2 (2 - carboxy 6 chlorophenyl) distrychnone salt, 106¹
- C₂₆H₁₀N₂O₈S₂ Hydratric acid, β sulfo-, brucine salt 4864¹
- Hydrocinamic acid, β (?) - sulfo-, brucine salt 4864¹
- C₂₆H₁₀N₂O₈ 2 5 γ Spiroheptenedicarboxylic acid, brucine salt 4558¹
- C₂₆H₁₀N₂O₈TI + H₂O 3926¹
- C₂₆H₁₀O₄ Supracetol, oxalate, 301⁴
- C₂₆H₁₀O₄ Xanthophyll diacrylate 520¹
- C₂₆H₁₀O₄ Cerotic acid, ester of myrcyl alc, 912⁴
- C₂₆H₁₀O₄ See *Lindenin*
- C₂₆H₁₀O₄ See *Eleostera*
- C₂₆H₁₀O₄ See *Olein*
- C₂₆H₁₀O₄ See *Sitara*
- C₂₆H₁₀Br₂N₂O₈ Phenol, p phenylazo-, compd. with AcBr 3321⁴
- C₂₆H₁₀N₂O₈ o o Bibenzenesulfonic acid, brucine salt 98¹
- C₂₆H₁₀N₂O₈ 5 6 Dimetamlic acid, brucine salt 98¹
- C₂₆H₁₀O₄ Compd, m 257°, from dehydroergosterol 302¹
- C₂₆H₁₀ClN₂O₄ Nicotinic acid, 2 - (2 carboxy 6-chlorophenyl), dibrucine salt 106¹
- C₂₆H₁₀O₄ Hexapyrrogallolmelitein, dodeca Me ester 97⁴
- C₂₆H₁₀IN₂ 1 Benzylpyridinium iodide, compd with benzidine, 5426⁴
- C₂₆H₁₀N₂O₈ [1,1 Bipyrrrole] 3 3 dicarboxylic acid 2 2 5 5 - tetramethyl, dibrucine salt 3640²
- C₂₆H₁₀N₂O₈ Xylene glycolcholic acid, 5920¹
- C₂₆H₁₀ Hexacostane 453²
- C₂₆H₁₀N₂O₈ Salicylaldehyde dihydrazone with benzal diphenylbenzohydrazine, tetra-Bz deriv 4862⁴
- Salicylaldehyde benzalbis-, bis(phenyl)hydrazone] tetra Bz deriv, 4862⁴
- C₂₆H₁₀O₄ Phytosterol tetra Bz deriv, 2434⁴
- C₂₆H₁₀ClN₂O₄ Phenol p phenylazo-, compd with COCl₂, 3321⁴
- C₂₆H₁₀O₄ Gentiobioside, heptabenzoyl 1 β methyl 5401¹
- Glucose heptabenzoyl 1 β methyl 6-a glucosido- 5401¹
- C₂₆H₁₀N₂O₈ Luteidic acid 3 (o carboxy phenyl) 6 phenyl distrychnone salt, 106¹
- C₂₆H₁₀N₂O₈ Fluorene compd with 1,3,5 - tri nitrobenzene, 1820⁴
- C₂₆H₁₀O₄ Gentisic hexabenzoyl, 5675⁴
- C₂₆H₁₀N₂O₈Zn₄ 4 Isopyrrolole triole, 2 (4 cyano 3,5 - dimethyl 2 pyrrolimeth

- ylene)-3,5-dimethyl, Zn complex compd with Zn(OAc)₂, 868¹
- C₁₀H₁₀O₄ Spiro[xanthene - 9 9 (10) phenanthrene - 10,9¹ - xanthene] - 3,3'',6,6'' tetrol, tetrabenzoate, 3644¹
- C₁₀H₁₀O₄P Phosphoric acid tris(2,4 - d phenyl) 1 naphthyl ester 4250¹, 4257¹
- C₁₀H₁₀N₂O₄ Lutidine acid, 3 (α carboxy phenyl) - 6 phenyl, dibrucine salt, 106¹
- C₁₁H₁₁O₇ α Turulin octaacetyl, 1949¹
- C₁₁H₁₁BrO₃ 3,10 Perylene-diol bromothiobis-, tetrabenzoate, 4874¹
- C₁₁H₁₀O₄ Compd, m 234°, from reduction of 1 naphthyl phenyl ketone, 4870¹
- C₁₁H₁₀O₄ Turanose, tris triphenylmethyl) 4855¹
- C₁₁H₁₁AlN₂O₄, 5662¹
- C₁₁H₁₁ Heptacontane 485¹, 1134¹
- C₁₂H₁₂O₄, 3022¹
- Xanthophyll dipalmitate 5.0¹
- C₁₂H₁₂N₂O₄S₂ Succinic acid, α β disulfobrucine salt 4222¹
- C₁₂H₁₂O₄ Cellobiose acetate 4119¹
- C₁₂H₁₂O₄ Turanose, tris(triphenylmethyl) pentaacetate 4855¹
- C₁₂H₁₂O₄ α Tetraamyllose octabenzoate 88¹
- C₁₂H₁₂O₄ Panassapogenin di Ac deriv anhydride, 1533¹
- C₁₂H₁₂O₄ Hygroterol diglucoside, 3771¹
- C₁₂H₁₂Br₂N₂O₄ 1 Naphthol phenylazo-compd with BrBr 3322¹
- C₁₂H₁₂O₄ Bothrodendrin 2456¹
- C₁₂H₁₂O₄ Tasmanin 2455¹
- C₁₂H₁₂O₄ Pollenin from Corylus 2455¹
- C₁₂H₁₂O₄ Sporemin from Lycopodium clavatum, 2455¹
- C₁₂H₁₂O₄ Pollenin from Pinus 2455¹
- C₁₂H₁₂O₄ Pollenin from Picea 2455¹
- C₁₂H₁₂N₂O₄S₂ Succinic acid α β disulfobrucine salt 4222¹
- C₁₂H₁₂N₂O₄P 2159¹
- C₁₂H₁₂N₂O₄P 2159¹
- C₁₂H₁₂O₄ Ether bis[β tris(triphenylmethoxy methyl)ethyl] 1466¹
- CaCl₂ See Calcium chloride
- CaCl₂O₂ See Calcium hypochlorite
- CaCl₂O₂ Calcium chlorite 4450¹
- CaCl₂O₂ See Calcium chlorate
- CaCl₂Mg₂ + 12H₂O See Tachhydrite
- CaCrO₄ See Calcium chromate
- CaF₂ See Calcium fluoride
- CaF₂ See Calcium fluoride Fluorite
- CaF₂Mg₂ See Zambonite
- CaF₂Si₂ See Calcium fluorosilicate
- CaFe₂O₄ Calcium ferrite 3889¹
- CaH₂ See Calcium hydride
- CaHO₂P See Brookite Calcium phosphates Monoxide
- CaH₂ See Calcium hydride
- CaH₂O₂ See Calcium hydroxide
- CaH₂O₂ See Calcium hydroxide
- CaH₂KN₂ 2628¹
- CaI₂O₂ See Lanthanite
- CaIn₂O₄ Calcium indate, 888¹
- CaK₂O₂Si₂ Calcium potassium silicate 1715¹
- CaK₂O₂Si₂ + H₂O See Syngenite
- CaK₂N₂O₄ Calcium potassium nitrate 3551¹
- CaK₂O₂Si₂ Calcium potassium silicate 1718¹
- CaK₂O₂Si₂ Calcium potassium silicate 1718¹
- CaK₂O₂Si₂ Calcium potassium silicate 1718¹
- CaMgO₂Si₂ See Monticellite
- CaMgO₂Si₂ See Diopside
- CaN₂O₂ See Calcium nitrate
- CaO See Lime
- CaO 3n Calcium stannite, 1175¹
- CaO 3 See Calcium sulfide
- CaO₂Si₂ See Calcium thiosulfate
- CaO₂Si₂ See Calcium thiosulfate Wollastonite
- CaO₂Ti₂ See Perovskite
- CaO₂Zr₂ Calcium zirconium oxide 2633¹
- CaO 3 See Anhydrite Calcium sulfate Gypsum Selenite
- CaO₂W See Calcium tungstate Scheelite
- CaO₂Si₂Ti₂ See Titanite
- CaS See Calcium sulfide
- Ca₂Ch₂O₂ Calcium columbium oxide 2381¹
- Ca₂Co₂H₂O₂Si₂ See Lanthanite
- Ca₂Cl₂Mg₂ + 6H₂O Calcium magnesium chloride P 25.9¹
- Ca₂Fe₂O₂ See Calcium ferrite
- Ca₂K₂Mg₂O₂Si₂ + 2H₂O See Polyhalite
- Ca₂K₂O₂Si₂ Calcium potassium silicate 1715¹
- Ca₂K₂O₂Si₂ Calcium potassium silicate 1718¹
- Ca₂Mn₂O₂Si₂ See Akermanite, manganese
- Ca₂O 3Sn, 1175¹
- Ca₂O 3I See Calcium silicates Hillebrandite
- Ca₂O 3I₂Zn See Hardystonite
- Ca₂O 3Ta₂ Calcium tantalum oxide 2381¹
- Ca₂O₂Si₂ + 3H₂O See Fluorite of Paris
- Ca₂K₂O₂Si₂ 1715¹, 3551¹
- Ca₂N₂ See Calcium nitride
- Ca₂O 3I₂ See Calcium silicates
- Ca₂O₂P₂ See Calcium phosphates Collophanite
- Ca₂Fe₂K₂O₂Si₂ See Agophyllite
- Ca₂O₂Ta₂ Calcium tantalum oxide, 2381¹
- Ca₂Ch₂O₂ Calcium columbium oxide, 2381¹
- Ca₂H₂O₂Si₂ + 2H₂O See Forsterite
- Ch₂P₂ Columbian phosphide, 4192¹
- Ch₂O₂ See Columbian oxide
- Ch₂O₂ Sr Columbian strontium oxide, 2381¹
- Ch₂O₂ Sr₂ Columbian strontium oxide 2381¹
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- CdCl₂O₂ + 2H₂O Cadmium chlorite, 4455¹
- CdCl₂O₂ Cadmium perchlorate 5099¹
- CdCl₂K₂ Cadmium potassium chloride, 5625¹
- CdCl₂H₂N₂ Ammonium cadmium chloride 2383¹
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- CdFe₂O₂ Cadmium ferrite 3889
- CdH₂ See Cadmium hydride
- CdH₂N₂O₂Si₂ + 6H₂O Ammonium cadmium sulfate 5813¹
- CdH₂Hg₂I₂N₂ 5862¹
- CdH₂N₂O₂ 2932¹
- CdI₂ See Cadmium iodide
- CdI₂N₂ Cadmium sodium iodide 2383¹
- CdIn₂O₂ Cadmium indate 688¹
- CdK₂O₂Si₂ + 6H₂O Cadmium potassium sulfate 1454¹
- CdMg 1432¹
- CdMg₂, 1432¹, 1717¹
- CdNa₂O₂Si₂ + 6H₂O Cadmium sodium sulfate 1454¹
- CdO See Cadmium oxide
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- CdO₂W Cadmium tungstate, 10¹
- CdS See Cadmium sulfide
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- Cd₂Cl₂Sb₂ + 2H₂O 1177¹
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 ClKO₂ See *Potassium perchlorate*
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 ClO₂Rb Rubidium chlorite 4455²
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 ClCuH₁₁N₂O₂, 261²
 ClCuH₁₁N₂O₂ + 2H₂O, 261²
 ClCuH₁₁N₂O₂, 261²
 ClCuO₂ Copper perchlorate, 261², 2648², 5099², 5859²
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 ClO₂Pb Lead chlorite, 4455²
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 ClOV See *Vanadium oxychloride*
 ClP See *Phosphorus chlorides*
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 ClRh See *Rhodium chloride*
 ClSb See *Antimony chlorides*
 ClGe See *Germanium chloride*
 ClGeH₁₁N₂, 1750²
 ClH₂HgN₂ Ammonium mercury chloride 5095²
 ClHgK₂ Mercury potassium chloride, 5625²
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 ClSi See *Silicon tetrachloride*
 ClSn See *Tin chlorides*
 ClTh See *Thorium chloride*
 ClTi See *Titanium chloride*
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 ClMo See *Molybdenum chloride*
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CuZn 955
CuZn 2958
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FeO₂P₂ + 8H₂O See *Iranite*
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Fe P *Iron phosphide* 1780¹
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Fe₂H₂K₂O₂Si₂ See *Jarosite*
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 HLi See Lithium hydride
 HLiO See Lithium hydroxide
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 H₂MnO₂ See Manganous acid
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 H₂NO₂ Nitrososulfonic acid, 3441¹
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 H₂O₂ Si See Thiosulfuric acid
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 H₂O₂ See Sulfuric acid
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H₂Pb See Lead hydride
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 H₂O₂Sn See Tin acids
 H₂O₂Tb See Thionium hydroxide
 H₂O₂Tl See Telluric acid
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 H₂Sn Tin hydride, 51¹
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 H₂KN₂O P Ammonium sodium phosphate, 2118¹
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 H₂N₂O₂ Ammonium sulfamate, 4482⁴
 H₂N₂O₂ Hydrazine sulfate, 3253⁴
 H₂NaO₂W₂ Sodium metatungstate, 4691¹
 H₂O₂Si₂ Siloxene, 5340⁴
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 H₂K₂N₂Zn, 2628⁴
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 H₂MgN₂O₂Si₂ + 6H₂O Ammonium magnesium selenate, 1158¹, 5813⁴
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 H₂MnN₂O₂Si₂ + 6H₂O, 1454¹, 2067¹, 5803⁴
 H₂K₂N₂O₂Si₂ Ammonium manganese sulfate, 2067¹
 H₂Mo₂N₂O₂Si₂ + 2H₂O, 5106⁴
 H₂Mo₂N₂O₂Si₂ + 6H₂O Ammonium molybdenyl sulfate, 5106⁴
 H₂N₂NiO₂Si₂ + 6H₂O Ammonium nickel sulfate, 1454¹
 H₂N₂O₂Si₂ See Ammonium sulfite
 H₂N₂O₂Si₂ See Ammonium thiosulfate
 H₂N₂O₂Si₂ See Ammonium sulfate
 H₂N₂O₂Si₂ See Ammonium persulfate
 H₂N₂O₂Si₂V + 6H₂O, 1454¹

$H_2N_2O_8S_2Zn + 6H_2O$ Ammonium zinc sulfate, 1499, 4164, 5813⁹

H_2NS See Ammonium sulfide

$H_2O_3S_2$ See Sulfuric acid

H_2NO_3P See Ammonium phosphates

H_2O_3Sn 1178

H_2MnO_3S 793⁹

H_2NO_3P See Ammonium phosphates

H_2NNiO_3S 459

H_2NNiO_3Re 5675⁹

H_2NOS Ammonium in dithiosulfate P 3442⁹

H_2O_3Sn 118

H_2NO_3Zn 3324

$H_2NO_3PW + 43H_2O$ 461⁹

$H_2Hg_2N_2Ni$ 586⁹

$H_2Hg_2N_2Zn$ 586⁹

H_2NNiO_3S 467

H_2NNiO_3S 793⁹

H_2NNiO_3Re 5675⁹

H_2NNaO_3P 1064

$H_2Mo_2O_3 + 4H_2O$ 1160

H_2NNa_2Pb 361⁹

H_2NNa_2Sn 361⁹

H_2NNa_2Pb 361⁹

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$H_2Mo_2N_2O$ 1311 O 4479

$H_2Mo_2N_2O$ 1811 O 4491

$H_2N_2O_3W$ Ammonium paratungstate 4694

$H_2N_2O_3Sb_2W_8 + 4H_2O$ 461⁹

$H_2N_2O_3Sb_2W_8 + 35H_2O$ 461⁹

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Hg_2K Mercury potassium iodide 3923⁹, 5623⁹

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Hg_2O_3V Mercury vanadate 5107

$Hg_2O_3S_2 + 2H_2O$ 2343

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IO_3TI See Thallium iodate

IRb See Rubidium iodide

ITI See Thallium iodide

IMg See Magnesium iodide

$IMgO_3$ Magnesium iodate 2067⁹

IMn See Manganese iodide

$INiNa_2O_3 + 1311H_2O$ 2067⁹

INi See Nickel iodide

IO_3 See Iodine oxide

IPb See Lead iodide

ISm See Samarium iodides

ISr See Strontium iodide

IZn See Zinc iodide

$IK + 3147$ See Potassium iodides

ILa_2O_3 Lanthanum iodate, 1145⁹

ILn See Neodymium iodide

ISb See Antimony iodide

ISm See Samarium iodides

ISi See Silicon iodide, 4738⁹

ISn See Tin iodide

$IK + H_2O$ See Potassium iodides

$KLiO_3$ Lithium potassium sulfate, 1158⁹

$KMnO_3$ See Potassium permanganate

ENO_3 See Potassium nitrate

KNO_3 See Potassium nitrate

$KNO_3S_2 + H_2O$ Neodymium potassium sulfate, 1176⁹

$KNO_3Se_2 + 4H_2O$ Neodymium potassium sulfonate, 1176⁹

$KORE_3$ Potassium triorthoperbhenate, 2069⁹

$KORe_3$ Potassium diorthoperbhenate, 2069⁹

KOP See Potassium metaphosphate

$KORe_3$ Potassium monorthoperbhenate, 2069⁹

$KORe$ Potassium perbhenate 5629, 2033⁹, 2933⁹, 5872⁹

KRe_3 Potassium tetrathioorthoperbhenate, 2069⁹

K_2MgNO_3 Magnesium potassium nitrate, P 5241⁹

$K_2MgO_3S_2$ (See also Leonite)

Magnesium potassium sulfate, 1454⁹, 5813⁹

$KMgO_3S_2$ See Leonite

$KMnO_3$ See Potassium manganite

$K_2MnO_3S_2 + 6H_2O$ Manganese potassium sulfate 1454⁹

$KMnO_3S_2$ Manganese potassium sulfate, 2067⁹

$K_2MoO_3S_2 + 2H_2O$ Molybdenyl potassium sulfate 5106⁹

$KNiO_3$ Potassium nickelate, 655⁹

$KNiO_3$ 2931⁹

$KNiO_3S_2 + 6H_2O$ Nickel potassium sulfate, 1454⁹

KO See Potassium oxide

KO_3S_2 See Potassium thiosulfate

KO_3Te Potassium tellurite 541⁹

KO_3S See Potassium sulfates

KO_3S_2 Potassium metabisulfite 2524⁹

KO_3S_2 Potassium dithionate, 4757⁹

KO_3S_2 Potassium tetrathionate 657⁹

KO_3S_2 See Potassium pyrosulfate

KO_3S_2 See Potassium persulfate

$KO_3S_2V + 6H_2O$ 1454⁹

$KO_3S_2Zn + 6H_2O$ Potassium zinc sulfate, 2609⁹

K_3S See Potassium sulfides

$K_3S_2 + 311H_2O$ See Potassium sulfides

K_3S_2 See Potassium sulfides

K_3S_2 See Potassium sulfides

K_3S_2 See Potassium sulfides

K_3Pb See Potassium plumbide

$K_3O_3Sb_2W_8 + 6H_2O$ 4694

$K_3O_3P_2W_8 + 3411H_2O$ 4694

$K_3O_3W_8 + 1111H_2O$ See Potassium tungstate

$K_3O_3Sb_2W_8 + 3111H_2O$ 4694

La_2NO_3 See Lanthanum nitrate

La_2O_3 See Lanthanum oxides

La_2O_3 See Lanthanum oxides

La_2O_3 See Lanthanum oxides

La_2O_3 See Lanthanum oxides

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La_2S_3 Lanthanum sulfide 1751⁹

La_2S_3 Lanthanum sulfide 1751⁹

$LiNO_3$ See Lithium nitrate

LiO_3 See Lithium oxide

LiO_3S_2 See Lithium thiosulfate

- Li₂O.Si Lithium metasilicate, 468¹
 Li₂O.S See Lithium sulfate
 Li₂O.S₂ Lithium disulfate, 468¹
 Li₂S See Lithium sulfides
 Li₂S₂ See Lithium sulfides
 Li₂S₃ See Lithium sulfides
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 MgO See Magnesia
 MgO₂ See Magnesium oxides
 MgO.S See Magnesium sulfate
 MgO.S₂ See Magnesium thiosulfate
 MgO.Si₂ See Clinocentrite *Insatite* Magnesium silicate
 MgO.S₃ See *Epsonite* *Hexahydrate* *Kat erite* Magnesium sulfate
 MgO.W See Magnesium tungstate
 MgO.S₂.Ti + 6H₂O Magnesium thallium sulfate 5813¹
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 MgZn₂ 1717¹
 Mg₂O.Si See Forsterite
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 Mg.Si 5836¹
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 Mg₂O.P₂ See Magnesium phosphate
 MnMoO₄ See Manganese molybdate
 MnN₂O₄ See Manganese nitrate
 MnNaO₄ See Sodium permanganate
 MnNa₂O₄S₂ + 6H₂O Manganese sodium sulfate 1454¹
 MnO See Manganese oxides
 MnO₂ See Manganese oxides
 MnO.S See Manganese sulfate
 MnO.W See *Hübnerite* *Manganese tungstate*
 MnO₂.Rb₂S₂ + 6H₂O Manganese rubidium sulfate 2067¹
 MnO₂.S₂.Ti + 6H₂O Manganese thallium sulfate 2067¹
 MnS See *Alabandite* *Manganese sulfite*
 MnS₂ See *Hauerite*
 MnZn₂ 2101¹ 5131¹
 MnZn₂ 2101¹ 5131¹
 Mn₂O₃.Si See *Tephroite*
 Mn₂O₄.Ti Manganese orthotitanate 4163¹
 Mn₂O₄.Rb₂S₂ Manganese rubidium sulfate 2067¹
 Mn₂O₄.S₂.Ti Manganese thallium sulfate, 2067¹
 Mn₂Sn 5807¹
 Mn₂O₃ See Manganese oxides
 Mn₂O₄.P₂ See Manganese phosphate
 Mn.Sn 5807¹
 Mn₂N₂ See Manganese nitrides
 MoNa₂O₄ See Sodium molybdates
 MoNiO₄ See Nickel molybdate
 Mo₂O₃ See Molybdenum oxides
 MoO₂.Pb See *Häufertite*
 MoO₂.Zn See Zinc molybdate
 MoP₂ Molybdenum phosphide 4192¹
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